

Inspection Date(s):	6/12/2024	Inspection Announced: No
Facility or Site Name:	Ducommun Aero Structures, Inc.	
Facility/Site Physical Location:	171 Stacey Road	
(city, state, zip code)	Coxsackie, NY 12051	
Mailing address (if different from above):	see above	
(city, state, zip code)		
Facility/Site Contact:	Mary McCoy	EHS Manager
	mmccoy@ducommun.com	
	(203) 300-7303	
RCRA ID Number:	NYR000219550	
Facility/Site Personnel Participating in Inspection:		
Mary McCoy	EHS Manager	mmccoy@ducommun.com
Robert Hasenkopf	Center Director	rhasenkopf@ducommun.com
Sunder Shelhamer	Maintenance Lead	sshelhamer@ducommun.com
Millage Howe	Value Stream Manager	mhowe@dummon.com
Inspector(s):		
Vince Damiano (ERG [EPA Contractor])	Vincent Damiano  Digitally signed by Vincent Damiano Date: 2024.08.15 14:33:08 -04'00'	8/15/2024
EPA Supervisor		
Derval Thomas (EPA Region 2)	DERVAL THOMAS  Digitally signed by DERVAL THOMAS Date: 2024.08.19 13:59:27 -04'00'	
Inspection Report Authors: Vince Damiano		

SECTION I – INTRODUCTION

Purpose of the Inspection Objective

EPA Region 2 identified Ducommun Aero Structures, Inc. (“Ducommun”) as a target for a compliance evaluation inspection (CEI). The purpose of the inspection was to determine the facility’s compliance with the Resource Conservation and Recovery Act (RCRA). The inspection was conducted by Vince Damiano (ERG).

Opening Conference

The inspector arrived at Ducommun at approximately 9:00 am on June 12th, 2024, for an unannounced RCRA inspection. Inspector Damiano first met with Robert Hasenkopf (Director), Sunder Shelhamer (Maintenance Lead), and Millage Howe (Value Stream Manager). Vince Damiano presented his RCRA inspector credentials to Mr. Hasenkopf, Mr. Shelhamer, and Mr. Howe and informed them that this was an EPA RCRA CEI that covered all RCRA regulations. Inspector Damiano inquired about any permitting requirements for the use of equipment that is not intrinsically safe in the process area and explained Ducommun’s right to claim confidential business information (CBI). Ducommun indicated that no information included in this report was claimed as CBI. The inspection report and attachments present the results of the CEI.

Facility/Site Description

Ducommun produces structural and electronic components and subassemblies for commercial and military aircrafts. The facility receives sheet metal in bulk and performs "structural assemblies," primarily creating aircraft parts using techniques such as sheet metal cutting ("waterjet"), bending, cold-forming ("drop hammer"), stamping (punch and break presses), welding, assembling, coating (Everlube spray booths), etching and other operations. Ducommun began operations at this site in 2016 and employs approximately 230 employees. The facility consists of a 150,000 ft² building sitting on a 20-acre plot.

Facility representatives said the sheet metal is first brought to the Blank Cell Area where it undergoes shearing and waterjet cutting for processing. After the sheet metal is cut, it is brought to the main process area. In this area, parts molds are stored in the Die Storage Area and then pre-heated in ovens. The heated dies are used in hydraulic and electric hot die presses in the Hot Form Press Area. Sheet metal is then bent using break form press machines in the Press Break Area and the Hot Break Form Area. Parts are cleaned in one of

five value streams using alkaline cleaners. Coating operations occur in the Everlube spray booths and then the final parts are painted in the paint booths.

The site is currently operating as a Large Quantity Generator (LQG) of hazardous waste. Most of the hazardous waste generated is nitric/hydrofluoric acid mix used to clean parts in their value streams and Alodine 600/1200 used as a protective coating. The nitric/hydrofluoric acid mix and Alodine coating both carry D002 and D007 hazardous waste codes. The site also generates hazardous waste from their painting and coating activities which carries D007, D011, and F003 hazardous waste codes. The hazardous waste is picked up by Veolia ES Technical Solutions (NJD080631369) and transferred to Freehold Cartage Inc. (NJD054126164). Freehold Cartage will then transport the waste to one of two designated disposal facilities – Veolia ES Technical Solutions (NJD980536593) in Flanders NJ or Stablax Canada (NYD98075615) in Blainville, QC, Canada. The site also generates Oakite 160 Solution which is a caustic aluminum coating for etching processes and carries a D002 hazardous waste code. Paint debris, used oil, spent acetone, and universal waste are also generated at the facility. Ducommun operates under a New York State Facility Air Permit (Registration ID: 4-1928-00219/00003) issued on October 19, 2017.

SECTION II – OBSERVATIONS

The inspector arrived at the Ducommun facility in Coxsackie on the morning of June 12th, 2024. Following the opening conference and a discussion of the facility processes, the inspection team conducted a walkthrough starting at approximately 9:30 am. The inspector observed the Blank Cell area, the value streams, paint booths, Everlube spray booths, central accumulation area (CAA), and several satellite accumulation areas (SAAs). The inspector ended the walkthrough at 11:00 am.

All photographs taken during the walkthrough are provided in Attachment 1. The photograph numbers in this report correspond to the numbers in Attachment 1. Further details regarding each of the areas observed during the walkthrough are discussed in the sections below.

Blank Cell Area

The inspection team observed the Blank Cell Area where bulk raw materials are stored and the sheet metal is cut using water and garnet. The wastewater from the cutting process is collected in sumps and sent to a series of underground settling tanks where spent garnet and water are collected. After the water is separated from the garnet, it is sent to a POTW to be treated and released. The inspector inquired about Ducommun having a permit or letter for approval to discharge wastewater to the Village of Coxsackie POTW, and Ms. McCoy provided correspondence with the POTW stating the facility is not a categorical

pretreatment facility and a permit is not required (see Attachment 2). The inspector requested waste determinations for the wastewater being discharged, the garnet/water mix in the settling tanks, and the spent garnet following the inspection. The analytical results were provided by Ms. McCoy showing all three are non-hazardous (see Attachments 3, 4, and 5). The inspection team observed a 55-gallon drum and a 5-gallon container collecting used oil from the water-jet cutter which was not labeled as shown in Photograph 1 and 3. Ducommun personnel said the used oil is collected in the 5-gallon container and transferred to the 55-gallon drum once full.



View of unlabeled 55-gallon drum of used oil.
{Photograph 1, Attachment 1}



View of unlabeled 5-gallon container of used oil.
{Photograph 3, Attachment 1}

Value Streams and Everlube Spray Booth

The inspector observed two of the five value streams as each value stream is set up the same way. Each value stream processes parts based on size, with distinct value streams dedicated to small, medium, and large parts. Despite the size differences, all value streams serve the same purpose: bending, etching, heating, break forming, and cleaning parts before they are assembled. The parts are cleaned using a nitric/hydrofluoric acid mix. This mixture is kept circulating in open tanks and changed about once every two weeks. When changed, the used acid mix is transferred into a tote which is then stored in the CAA as hazardous waste. The inspection team also observed an Everlube spray booth where parts are coated in a protective coating to prevent damage when heated. A 35-gallon drum of acetone rags which was properly labeled as hazardous waste and closed was also observed in this area. No areas of concern were found at the value streams and Everlube spray booth.

Paint Booth

The inspector observed the VS3 paint booth where parts are painted before assembly. Two 55-gallon drums were observed in the paint booth's SAAs, one containing flammable enamel paint slow drain and the other flammable enamel paint quick drain (see Photographs 6 through 8, Attachment 1). Each 55-gallon drum was managed as a separate

SAA. An acetone rag container was also present in the paint booth which was properly labeled as hazardous waste and closed. The inspection team found a red metal cabinet labeled as expired paint. The storage cabinet contained approximately 30 1-gallon expired paint cans as shown in Photograph 9. The facility stated in a follow-up email after the inspection that the expired paint is not considered waste because the facility uses it for training and troubleshooting purposes (see Attachment 6).



View of metal storage cabinet containing expired paint in VS3 Paint Booth.
{Photograph 9, Attachment 1}

Waste Storage Areas

The inspector observed the CAA for the site, where totes of nitric/hydrofluoric acid mix from the value streams, drums of spilled acid debris, totes of paint waste, and totes of acetone rags are stored before being picked up for disposal. The CAA is a storage shed separated into three different bays. Inside the first bay was a half full tote of nitric /hydrofluoric acid mix labeled as hazardous waste with an accumulation start date of June 5, 2024. There was also a 35-gallon drum of acidic spill debris properly labeled with the same accumulation start date of June 5, 2024. Behind the tote of acid waste, the inspector observed a 5-gallon carboy labeled as hazardous waste containing hydrofluoric acid and chromic acid with an accumulation start date of September 11, 2023, as shown in Photograph 12. When asked if they knew it was past the 90-day storage period, the facility personnel stated the container was from a spill and they were unaware that the container was being stored in the CAA.



View of 5-gallon carboy containing hazardous corrosive waste stored past the 90-day storage period inside bay 1 of CAA.
{Photograph 12, Attachment 1}

The inspector observed the second bay in the CAA which contained four lined cardboard totes labeled as hazardous waste. One of the totes contained acetone debris and did not have an accumulation start date or indication of hazards of its contents on the label. The tote contained a DOT placard indicating a miscellaneous hazard was contained inside the tote, but the facility ships acetone debris out with waste code D001 (flammable). Therefore, the DOT placard did not constitute an appropriate indication of hazards of the container's contents. The tote was also open at the time of the inspection with no sign of waste being added into the container(see Photographs 13-14, Attachment 1).



View of acetone debris tote stored with top opened inside the CAA.
{Photograph 14, Attachment 1}

Another tote contained paint debris and did not have an accumulation start date or indication of the hazards of its contents on the label. The tote contained a DOT placard indicating a miscellaneous hazard was contained inside the tote, but the facility ships paint debris out with waste codes D001 (flammable) and D007 (chromium). Therefore, the DOT placard did not constitute an appropriate indication of hazards of the container's contents. The tote was also open at the time of the inspection with no sign of waste being added into the container (see Photograph 18, Attachment 1).



View of paint debris tote stored with top opened with no accumulation start date inside the CAA
{Photograph 18, Attachment 1}

The remaining two totes were labeled as Adhesive/Sealant Debris; one of which did not have an accumulation start date, while the other had an accumulation start date of April 30, 2024. Neither of the totes contained an indication of hazards of their contents on the waste label (see Photographs 15, 16, and 19, Attachment 1). The facility stated in a follow-up email that these two totes were pending analysis and provided the inspector with analytical results on the Adhesive/Sealant debris proving that the waste was non-hazardous following the inspection (see Attachments 6 and 10).

The third bay of the CAA was used to store drums of product and materials. The inspector also observed a working communication device, fire extinguisher, and spill kit in front of the CAA (see Photographs 23 and 24, Attachment 1).

Ducommun provided a follow-up email responding to initial areas of concern found during the inspection. In this email the facility included photographs of the acetone debris tote and paint debris tote properly closed and labeled with an accumulation start date. They also included an image of a manifest for the hazardous carboy found stored past the accumulation time limit, stating it was shipped offsite on 6/18/2024. These photographs can be found in Attachment 7.

Universal Waste and Used Oil Storage

The inspector observed the universal waste and used oil storage areas. In the used oil storage area, there was one 55-gallon drum containing used oil designated by a sign and a 55-gallon drum for oily debris also designated by a sign, however the drum storing used oil did not contain a label or marking on the container (see Photograph 20, Attachment 1). In the universal waste storage area, the inspector observed a 5-gallon container of lead acid batteries, properly labeled with an accumulation start date of November 2, 2023; and two 5-gallon containers of aerosol cans properly labeled with accumulation start dates of September 24, 2023 and March 19, 2024 (see Photograph 21 and 22, Attachment 1).

Records Review

The inspector reviewed the following compliance documents as part of the records review:

Contingency Plan: In response to a request to provide the Contingency Plan, Ducommun provided a copy of their RCRA Contingency Plan which also includes emergency response procedures. The plan is dated with a last reviewed date of February 1, 2024. The RCRA Contingency Plan is provided in Attachment 8. Additionally, the facility provided several email correspondences with local emergency departments to coordinate dates so they can visit the site and become familiar with the layout and Ducommun's emergency response plans; this includes emails indicating local emergency responders have received a copy of their contingency plan, which can be found in Attachment 9.

The Contingency Plan provides lists of key management personnel and indicates that the EHS Manager is the Plan Administrator. The plan states that if more than 2.5 gallons of hazardous material is spilled the Fire Department will be called; and that for a spill less than 2.5 gallons, the high hazard chemical incidental spill response procedure will be implemented. The beginning of the Contingency Plan provides five individuals who can serve as the emergency coordinator and provides their contact information. The plan includes lists of names and types of hazardous wastes present on site.

Additionally, the contingency plan includes a list of emergency equipment and support including fire extinguishers, emergency PPE, eye wash stations, first aid kits, and spill containment kits. The location of these items can be found in the facility map in the beginning of the plan and the list outlines the capacity of each item. The Plan also includes location and directions for how to use their "Pump House" or fire pump system.

The inspector also requested documentation that the latest version of the Contingency Plan has been submitted to local emergency responders. Mary McCoy provided a list of tracking results from USPS, sent in October 2023. She also provided email correspondence from December 2023 between herself and the Village of Coxsackie Police Department, the County Sheriff's Office, Veolia Emergency Response, Albany Medical

Services, New York State Emergency Response Commission, and the local Fire department confirming the receipt of Ducommun's Contingency Plan; this documentation can be found in Attachment 9.

Training Records: Every Employee of Ducommun is required to take an initial RCRA training and refresher training every year. Training records were reviewed on site during the inspection, all records were up to date.

Waste Profiles: Ducommun provided the current waste profiles for the "Spent Garnet" dated June 14, 2024, and "Vault Sediment" dated June 14, 2024. The Spent Garnet is profiled as non-hazardous waste based on analytical TCLP results from 2018 being below regulatory detection limits for chromium and generator knowledge (see Attachment 5). The Vault Sediment from the underground settling tanks is profiled as non-hazardous waste based on 2023 analytical TCLP results (see Attachment 3).

Waste Analytical: Analytical testing for the adhesive sealants, spent garnet, vault sediment, and wastewater discharged to the POTW were provided by Ducommun at the request of the inspector. The analytical results from 6/17/2024 for the adhesive sealant showed that it was non-hazardous (see Attachment 10). At the time of the inspection, the two adhesive sealant totes were labeled as hazardous waste, but Ms. McCoy stated they were waiting for these analytical results to come back.

Analytical testing is conducted every year for the wastewater being sent to the POTW, Ducommun provided the 2023 results showing the wastewater is non-hazardous (see Attachment 4). The analytical results for non-hazardous Spent Garnet and Vault Sediment are attached to the waste profiles discussed above.

Manifests: The inspector reviewed hazardous and non-hazardous waste manifests provided by Ducommun and viewed on RCRAInfo. All hazardous waste is picked up by Veolia ES Technical Solutions (NJD080631369) and transferred to Freehold Cartage Inc. (NJD054126164). Freehold Cartage then transports the waste to one of two designated disposal facilities – Veolia ES Technical Solutions (NJD980536593) in Flanders, NJ or Stablex Canada (NYD98075615) in Blainville, QC, Canada. Example manifests are provided in Attachment 11.

Weekly CAA Inspections: Ducommun provided its year-to-date weekly CAA inspection log. The inspection log was reviewed on site during the inspection; the records were up to date and all weeks were accounted for.

SECTION III – AREAS OF CONCERN

The presentation of areas of concern does not constitute a formal compliance determination or violation.

Regulatory Concerns

1. 6 NYCRR § 373-3.9(d)(1) states that “A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. ”. The inspector observed a tote used to accumulate hazardous acetone debris in the CAA. The top of the tote was completely open, such that it was open even when waste was not actively being added or removed (see Photograph 14, Attachment 1). Additionally, the inspector observed an open tote that was used to accumulate hazardous paint debris also stored in the CAA. The top of the tote was placed inside the totes, such that it was open even when waste was not actively being added or removed (see Photograph 18, Attachment 1).
2. 6 NYCRR § 372.2(a)(8)(i)(2) states that “marks the containers with the words "Hazardous Waste" and with other words that identify the contents of the containers.” The inspector observed two totes used to accumulate hazardous paint debris and acetone debris in the CAA. The totes were labeled as “hazardous waste” but did not contain an indication of the hazards of their contents (see Photograph 13 and 17, Attachment 1).
3. 6 NYCRR § 372.2(a)(8)(ii) states that “ ... the date upon which each period of accumulation begins must be clearly marked and visible for inspection on all containers.” The inspector observed two totes used to accumulate hazardous paint debris and acetone debris in the CAA. The totes were labeled as “hazardous waste” but did not contain an accumulation start date (see Photograph 13 and 17, Attachment 1).
4. 6 NYCRR § 372.2(a)(8)(ii) states that “... a generator may accumulate hazardous waste on-site of generation for a period of 90 days or less...” The inspector observed a 5-gallon carboy containing hazardous corrosive waste stored past the 90-day accumulation limit with an accumulation start date of 9/11/2023 inside the CAA (see Photograph 11, Attachment 1)
5. 6 NYCRR § 374-2.3(c)(4)(i) states that “Every container and aboveground used oil tank used to store used oil at a generator facility must be clearly labeled or marked with the words "Used Oil".” The inspector observed a 55-gallon drum and a 5-gallon container storing used oil without a label or marking inside the Blank Cell Area; and one 55-gallon drum storing used oil in the used oil storage area without a label.

Closing Conference

The closing conference took place on June 12, 2024, at approximately 1:30 pm. Attending from the facility were Mary McCoy, Robert Hasenkopf, Sunder Shelhamer and Millage Howe. Inspector Damiano was in attendance for the closing conference. Inspector Damiano discussed preliminary areas of concern and reviewed the list of documents he requested as follow-up to the inspection. The closing meeting ended at approximately 2:00 pm on June 12, 2024.

List of Attachments

These attachments are referenced throughout this report:

- Attachment 1: Photolog
- Attachment 2: POTW Response Regarding Permit
- Attachment 3: Vault Sediment Waste Determination
- Attachment 4: Wastewater Analytical
- Attachment 5: Garnet Waste Determination
- Attachment 6: Facility Follow up Email to EPA
- Attachment 7: Facility Follow-up Photographs
- Attachment 8: RCRA Contingency Plan
- Attachment 9: Emergency Responders Receipts
- Attachment 10: Adhesives Sealant Waste Determination
- Attachment 11: Waste Manifest Examples

Post-Inspection Facility Correspondence

Following the inspection, ERG provided a file transfer protocol link to Ducommun to allow them to upload pending documents requested during the inspection. Documents were uploaded by the facility, with the final documents uploaded on June 18, 2024.

Attachment 01

Photographic Log

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #1 (DSCN7348) Date: 06/12/2024 Time: 09:51 Taken by: Vince Damiano Comments: View of 55-gallon used oil drum in Blank Cell Area missing the words 'Used Oil' on the label.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #2 (DSCN7349) Date: 06/12/2024 Time: 09:51 Taken by: Vince Damiano Comments: View of 5-gallon container of used oil in Blank Cell Area which was unlabeled.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #3 (DSCN7350) Date: 06/12/2024 Time: 09:51 Taken by: Vince Damiano Comments: Another view of 5-gallon container of used oil in Blank Cell Area which was unlabeled.	 A photograph of a blue 5-gallon container, likely a drum, filled with dark, used oil. The container is positioned on a concrete floor. A red hose is connected to the top of the container, and a metal fitting is visible on the right side. The date and time '06.12.2024 09:51' are printed in orange in the bottom right corner of the image.

Ducommun Aero Structures Inspection Photolog
June 12, 2024

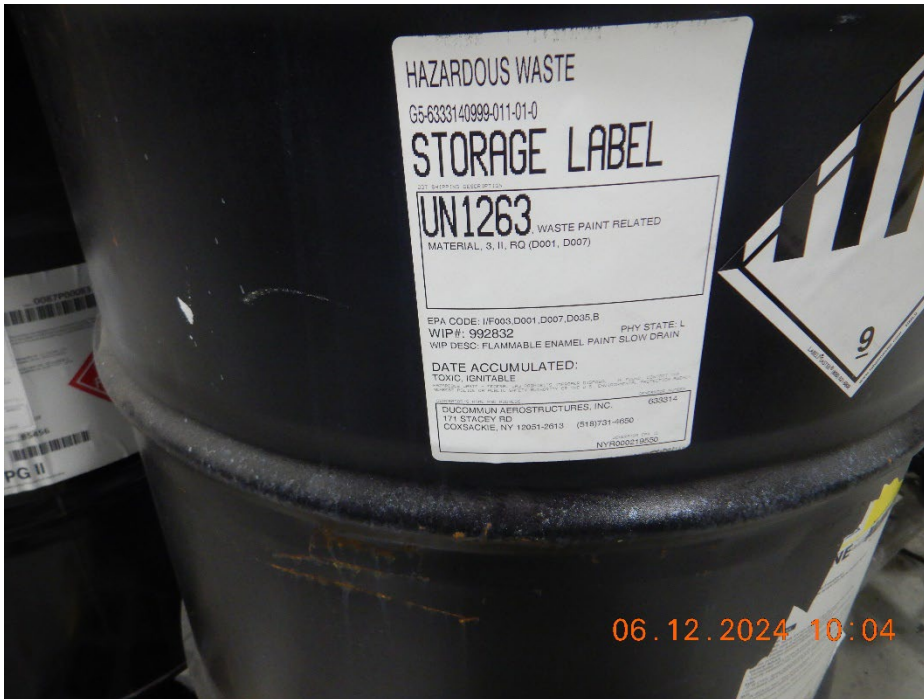
Identification/Notes	Photograph
Photo #4 (DSCN73451) Date: 06/12/2024 Time: 09:54 Taken by: Vince Damiano Comments View of cardboard tote found on loading dock by CAA containing electronic waste, no areas of concern noted.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #5 (DSCN7352) Date: 06/12/2024 Time: 09:54 Taken by: Vince Damiano Comments: View of cardboard tote found on loading dock by CAA containing electronic waste, no areas of concern noted.	 A photograph showing a cardboard tote filled with electronic waste. In the foreground, there is a large, dark-colored electronic device, possibly a monitor or a piece of equipment, with a timestamp "06.12.2024 09:54" printed in orange on its lower right corner. Behind it, several other electronic components are visible, including what appears to be a power supply unit and various cables. The background is a plain, light-colored wall.

Identification/Notes	Photograph
Photo #6 (DSCN7353) Date: 06/12/2024 Time: 10:04 Taken by: Vince Damiano Comments: View of two 55-gallon drums containing hazardous paint waste at VS3 paint booth SAA.	 The photograph shows two 55-gallon drums containing hazardous paint waste. The drums are dark, likely black, and are stacked on a yellow pallet. The drum on the left has a red funnel on top and a white label with a red hazard diamond. The drum on the right has a red lid and a white label with a black hazard diamond. The drums are located in a paint booth, with a red wall visible in the background. A timestamp '06.12.2024 10:04' is visible in the bottom right corner of the photo.

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #7 (DSCN7354) Date: 06/12/2024 Time: 10:04 Taken by: Vince Damiano Comments: Close-up view of label on flammable enamel slow drain 55-gallon drum in VS3 paint booth SAA.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #8 (DSCN7355) Date: 06/12/2024 Time: 10:04 Taken by: Vince Damiano Comments: Close-up view of label on flammable enamel quick drain 55-gallon drum in VS3 paint booth SAA.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #9 (DSCN7356) Date: 06/12/2024 Time: 10:05 Taken by: Vince Damiano Comments View inside of expired paint storage cabinet at VS3 paint booth, facility said paint is expired but not considered waste as it is used for training and troubleshooting purposes.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #10 (DSCN7357) Date: 06/12/2024 Time: 10:05 Taken by: Vince Damiano Comments: View of outside the expired paint storage cabinet at VS3 paint booth.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #11 (DSCN7358) Date: 06/12/2024 Time: 10:11 Taken by: Vince Damiano Comments: View of 5-gallon carboy containing hydrofluoric acid and chromic acid inside bay 1 of CAA with accumulation start date of 9/11/2023.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #12 (DSCN7359) Date: 06/12/2024 Time: 10:11 Taken by: Vince Damiano Comments: Another view of 5-gallon carboy containing hydrofluoric acid and chromic acid inside bay 1 of CAA with accumulation start date of 9/11/2023.	 06.12.2024 10:11

Identification/Notes	Photograph
Photo #13 (DSCN7360) Date: 06/12/2024 Time: 10:15 Taken by: Vince Damiano Comments: View of label on tote containing acetone debris inside bay 2 of CAA. The label did not contain an accumulation start date or indication of the hazards of its contents.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #14 (DSCN7361) Date: 06/12/2024 Time: 10:15 Taken by: Vince Damiano Comments: View of acetone debris tote seen in Photograph 13 stored with the top of the container open.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #15 (DSCN7362) Date: 06/12/2024 Time: 10:16 Taken by: Vince Damiano Comments: View of label on tote containing adhesive/sealant debris inside bay 2 of CAA. The label did not contain an accumulation start date or indication of hazards of its contents.	

Identification/Notes	Photograph
Photo #16 (DSCN7363) Date: 06/12/2024 Time: 10:16 Taken by: Vince Damiano Comments: View of tote containing adhesive/sealant debris inside bay 2 of CAA. The label did not contain an accumulation start date or indication of hazards of its contents.	 A photograph of a large, white, rectangular tote bag (FIBC) sitting on a wooden pallet. The bag has red lifting straps attached to its corners. A yellow label with black text and a hazard symbol is visible on the front of the bag. The label includes the words "HAZARDOUS WASTE" and a hazard symbol consisting of a diamond with diagonal black and white stripes. An orange timestamp "06.12.2024 10:16" is overlaid in the bottom right corner of the photograph. The background is dark and indistinct.

Identification/Notes	Photograph
Photo #17 (DSCN7364) Date: 06/12/2024 Time: 10:17 Taken by: Vince Damiano Comments: View of label on tote containing paint debris inside bay 2 of CAA. The label did not contain an accumulation start date or indication of hazards of its contents.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #18 (DSCN7365) Date: 06/12/2024 Time: 10:17 Taken by: Vince Damiano Comments: View of paint debris tote seen in Photograph 17 stored with the top of the container open.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #19 (DSCN7366) Date: 06/12/2024 Time: 10:17 Taken by: Vince Damiano Comments: View of second tote containing adhesive/sealant debris inside bay 2 of CAA. The label did not contain an indication of hazards of its contents.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #20 (DSCN7367) Date: 06/12/2024 Time: 10:24 Taken by: Vince Damiano Comments: View of 55-gallon drum of used oil and 55- gallon drum of oily debris in used oil storage area.	 The photograph shows a storage area for industrial waste. In the foreground, there are two 55-gallon drums. The drum on the left is black with a white lid and a label that reads 'STORAGE LABEL'. The drum on the right is red with a yellow top and a blue drum inside it. A label on the red drum reads '550045428'. Above the drums, there are two warning signs on the wall. The sign on the left is for 'NON-HAZARDOUS INDUSTRIAL WASTE OILY RAGS & ABSORBENTS (Paint Chips and Debris)'. The sign on the right is for 'NON-HAZARDOUS INDUSTRIAL WASTE USED OIL - WATER'. Both signs include safety instructions and the Ducommun logo. A timestamp '06.12.2024 10:24' is visible in the bottom right corner of the photograph.

Identification/Notes	Photograph
Photo #21 (DSCN7368) Date: 06/12/2024 Time: 10:27 Taken by: Vince Damiano Comments: View of one 5-gallon container of universal waste batteries and two 5- gallon containers of universal waste aerosol cans.	

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #22 (DSCN7369) Date: 06/12/2024 Time: 10:27 Taken by: Vince Damiano Comments: View of labels on universal waste aerosol can containers with accumulation start dates 9/24/2023 and 3/19/2024.	 The photograph shows two blue plastic buckets used for universal waste. Each bucket has a white label with 'UNIVERSAL WASTE' in bold, 'AEROSOL CANS' in a handwritten font, and an accumulation start date. The bucket on the left has a date of 9/24/23, and the bucket on the right has a date of 3/19/24. A white bucket is partially visible on the left. An orange timestamp '06.12.2024 10:27' is in the bottom right corner of the photo.

Ducommun Aero Structures Inspection Photolog
June 12, 2024

Identification/Notes	Photograph
Photo #23 (DSCN7370) Date: 06/12/2024 Time: 11:39 Taken by: Vince Damiano Comments: View of communication device and fire extinguisher outside of CAA.	

Identification/Notes	Photograph
Photo #24 (DSCN7371) Date: 06/12/2024 Time: 11:40 Taken by: Vince Damiano Comments: Signage for hazardous waste spill response area.	

Attachment 02

POTW Response Regarding Permit

McCoy, Mary

From: Brock Juusola <bjuusola@delawareengineering.com>
Sent: Friday, March 1, 2024 12:36 PM
To: McCoy, Mary; David Varade
Subject: RE: DAS NY Wastewater Permit

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Mary,

My understanding that is that at some point in the past your process was reviewed and at that time it was determined that you are not a "categorical pretreatment facility" and a permit was not required.

Thanks,



BROCK JUUSOLA, P.E.
PARTNER
28 Madison Avenue Ext. | Albany, NY 12203
518.452.1290 x234 (office)
518.429.0087 (mobile)
www.delawareengineering.com

From: McCoy, Mary <MMcCoy@ducommun.com>
Sent: Friday, March 1, 2024 12:27 PM
To: David Varade <wwtp2018@gmail.com>; Brock Juusola <bjuusola@delawareengineering.com>
Subject: DAS NY Wastewater Permit

Greetings,

As per our conversation on February 28, DAS NY is not required to have a wastewater permit for the Village of Coxsackie at this time.

If you could reply back to confirm or clarify, that would be great.

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.
171 Stacey Road
Coxsackie, NY 12051-2613
203.300.7303 cell

518.731.4650 office

mmccoy@ducommun.com

www.ducommun.com

Safety Suggestions: EHSsupportNY@ducommun.com

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Attachment 03

Vault Sediment Waste Determination

	Form No.:	F-00663 Hazardous Waste Determination Worksheet -	
	Last Reviewed Date:	10/17/2023	Authorized By: WI-00216 Environmental Management System - Requirements
	Revision No.:	A	
	Coxsackie, New York		Page 1 of 2

DCO Site: Coxsackie **EPA ID:** NYR 000 219 550
171 Stacey Road
Coxsackie, NY 12051-2613

Date: 6/14/2024 **By:** Mary McCoy

Waste Stream Common Name: Vault sediment

Check one: **RCRA Haz Waste** ☐ **Non-RCRA Haz Waste** ☐ **Not Haz Waste** ☒

RCRA Waste Codes: NA
State Waste Codes: NA

Source Code: #N/A
Form Code: #N/A

Management Method: #N/A

(For California sites, if this waste is subject to 22 CCR 66266.1 and is not recycled, attach justification.)

UN#, Proper Shipping Name, Hazard Class, Packing Group:

NA

ERG: NA **RQ Threshold:** NA

Check one: **Ongoing** ☒ **Intermittent** ☐ **One-time** ☐

Other information:

The sediment from the settling vaults associated with the wastewater treatment plant ("pH Lab") is non-hazardous based on 2023 TCLP results. See attached.

Waste generation process (listed, characteristic); chemicals used; location within facility:

After pH neutralization at the pH Lab, the wastewater is discharge to the POTW via settling vaults. Sediment collects at the bottom of the vaults.



December 27, 2023

Mary McCoy
Ducommun Aerostructures
171 Stacy Road
Coxsackie, NY 12051

RE: Project: WASTEWATER TREATMENT SL 10/28
Pace Project No.: 70275899

Dear Mary McCoy:

Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matthew T. Nemeth
matthew.nemeth@pacelabs.com
516-370-6042
Project Manager

Enclosures

cc: Linda Barley, Ducommun Aerostructures
Pedro Dumaua, Ducommun Aerostructures
Eugenia Lighthouse, Ducommun Incorporated



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CERTIFICATIONS

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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ANALYTICAL RESULTS

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

Sample: VAULT Lab ID: 70275899001 Collected: 10/27/23 09:00 Received: 10/31/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Pace Analytical Services - Melville								
Arsenic	3.0	mg/kg	1.2	1	11/03/23 07:00	11/03/23 14:59	7440-38-2	
Barium	<23.2	mg/kg	23.2	1	11/03/23 07:00	11/03/23 14:59	7440-39-3	
Cadmium	1.1	mg/kg	0.29	1	11/03/23 07:00	11/03/23 14:59	7440-43-9	
Chromium	441	mg/kg	1.2	1	11/03/23 07:00	11/03/23 14:59	7440-47-3	
Lead	1.1	mg/kg	0.58	1	11/03/23 07:00	11/03/23 14:59	7439-92-1	
Selenium	<1.2	mg/kg	1.2	1	11/03/23 07:00	11/03/23 14:59	7782-49-2	
Silver	<1.2	mg/kg	1.2	1	11/03/23 07:00	11/03/23 14:59	7440-22-4	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 12/15/23 22:20								
Pace Analytical Services - Melville								
Chromium	<0.050	mg/L	0.050	1	12/19/23 07:06	12/19/23 17:39	7440-47-3	
7471 Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Pace Analytical Services - Melville								
Mercury	<0.063	mg/kg	0.063	1	11/07/23 07:00	11/07/23 14:23	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	43.3	%	0.10	1		11/01/23 08:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

Sample: CACO3 TI#2 Lab ID: 70275899002 Collected: 10/28/23 09:30 Received: 10/31/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Pace Analytical Services - Melville								
Aluminum	28100	mg/kg	88.5	1	11/03/23 07:00	11/03/23 15:02	7429-90-5	
Cobalt	97.3	mg/kg	22.1	1	11/03/23 07:00	11/03/23 15:02	7440-48-4	
Copper	82.7	mg/kg	11.1	1	11/03/23 07:00	11/03/23 15:02	7440-50-8	
Iron	6240	mg/kg	44.2	1	11/03/23 07:00	11/03/23 15:02	7439-89-6	
Manganese	317	mg/kg	6.6	1	11/03/23 07:00	11/03/23 15:02	7439-96-5	
Molybdenum	18.4	mg/kg	8.8	1	11/03/23 07:00	11/03/23 15:02	7439-98-7	
Nickel	1350	mg/kg	17.7	1	11/03/23 07:00	11/03/23 15:02	7440-02-0	
Vanadium	6500	mg/kg	22.1	1	11/03/23 07:00	11/03/23 15:02	7440-62-2	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 10/31/23 23:09								
Pace Analytical Services - Melville								
Arsenic	<0.010	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:28	7440-38-2	
Barium	<0.20	mg/L	0.20	1	11/03/23 08:16	11/03/23 17:28	7440-39-3	
Cadmium	<0.0025	mg/L	0.0025	1	11/03/23 08:16	11/03/23 17:28	7440-43-9	
Chromium	0.027	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:28	7440-47-3	
Lead	0.029	mg/L	0.0050	1	11/03/23 08:16	11/03/23 17:28	7439-92-1	
Selenium	<0.010	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:28	7782-49-2	
Silver	<0.010	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:28	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 10/31/23 23:09								
Pace Analytical Services - Melville								
Mercury	<0.00020	mg/L	0.00020	1	11/06/23 06:00	11/06/23 13:33	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Pace Analytical Services - Melville								
Mercury	<0.034	mg/kg	0.034	1	11/07/23 07:00	11/07/23 14:24	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	<0.10	%	0.10	1		11/01/23 08:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

Sample: CACO3 TI#1 Lab ID: 70275899003 Collected: 10/28/23 09:45 Received: 10/31/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Pace Analytical Services - Melville								
Aluminum	24000	mg/kg	93.6	1	11/03/23 07:00	11/03/23 15:05	7429-90-5	
Cobalt	116	mg/kg	23.4	1	11/03/23 07:00	11/03/23 15:05	7440-48-4	
Copper	191	mg/kg	11.7	1	11/03/23 07:00	11/03/23 15:05	7440-50-8	
Iron	8890	mg/kg	46.8	1	11/03/23 07:00	11/03/23 15:05	7439-89-6	
Manganese	688	mg/kg	7.0	1	11/03/23 07:00	11/03/23 15:05	7439-96-5	
Molybdenum	83.3	mg/kg	9.4	1	11/03/23 07:00	11/03/23 15:05	7439-98-7	
Nickel	3510	mg/kg	18.7	1	11/03/23 07:00	11/03/23 15:05	7440-02-0	
Vanadium	6360	mg/kg	23.4	1	11/03/23 07:00	11/03/23 15:05	7440-62-2	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 10/31/23 23:09								
Pace Analytical Services - Melville								
Arsenic	<0.010	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:30	7440-38-2	
Barium	<0.20	mg/L	0.20	1	11/03/23 08:16	11/03/23 17:30	7440-39-3	
Cadmium	<0.0025	mg/L	0.0025	1	11/03/23 08:16	11/03/23 17:30	7440-43-9	
Chromium	0.066	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:30	7440-47-3	
Lead	0.017	mg/L	0.0050	1	11/03/23 08:16	11/03/23 17:30	7439-92-1	
Selenium	<0.010	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:30	7782-49-2	
Silver	<0.010	mg/L	0.010	1	11/03/23 08:16	11/03/23 17:30	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 10/31/23 23:09								
Pace Analytical Services - Melville								
Mercury	<0.00020	mg/L	0.00020	1	11/06/23 06:00	11/06/23 13:35	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Pace Analytical Services - Melville								
Mercury	<0.034	mg/kg	0.034	1	11/07/23 07:00	11/07/23 14:26	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	1.1	%	0.10	1		11/01/23 08:05		

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QUALITY CONTROL DATA

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

QC Batch: 326524

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury TCLP

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70275899002, 70275899003

METHOD BLANK: 1669310

Matrix: Water

Associated Lab Samples: 70275899002, 70275899003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00020	0.00020	11/06/23 13:22	

METHOD BLANK: 1668811

Matrix: Water

Associated Lab Samples: 70275899002, 70275899003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00020	0.00020	11/06/23 13:25	

LABORATORY CONTROL SAMPLE: 1669311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.001	0.00098	98	80-120	

MATRIX SPIKE SAMPLE:

1669312

Parameter	Units	70276359002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.00020	0.001	0.00099	98	75-125	

SAMPLE DUPLICATE: 1669313

Parameter	Units	70276359002 Result	Dup Result	RPD	Qualifiers
Mercury	mg/L	<0.00020	<0.00020		

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QUALITY CONTROL DATA

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

QC Batch: 326642

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70275899001, 70275899002, 70275899003

METHOD BLANK: 1669937

Matrix: Solid

Associated Lab Samples: 70275899001, 70275899002, 70275899003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.039	0.039	11/07/23 14:13	

LABORATORY CONTROL SAMPLE: 1669938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.2	0.19	99	80-120	

MATRIX SPIKE SAMPLE: 1669939

Parameter	Units	70275895001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.050	0.22	0.28	106	80-120	

SAMPLE DUPLICATE: 1669940

Parameter	Units	70275895001 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	0.050	0.049	2	

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**QUALITY CONTROL DATA**

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

QC Batch:	326198	Analysis Method:	EPA 6010C
QC Batch Method:	EPA 3050B	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70275899001, 70275899002, 70275899003

METHOD BLANK: 1667298 Matrix: Solid

Associated Lab Samples: 70275899001, 70275899002, 70275899003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	<10.5	10.5	11/03/23 14:21	
Arsenic	mg/kg	<0.52	0.52	11/03/23 14:21	
Barium	mg/kg	<10.5	10.5	11/03/23 14:21	
Cadmium	mg/kg	<0.13	0.13	11/03/23 14:21	
Chromium	mg/kg	<0.52	0.52	11/03/23 14:21	
Cobalt	mg/kg	<2.6	2.6	11/03/23 14:21	
Copper	mg/kg	<1.3	1.3	11/03/23 14:21	
Iron	mg/kg	<5.2	5.2	11/03/23 14:21	
Lead	mg/kg	<0.26	0.26	11/03/23 14:21	
Manganese	mg/kg	<0.79	0.79	11/03/23 14:21	
Molybdenum	mg/kg	<1.0	1.0	11/03/23 14:21	
Nickel	mg/kg	<2.1	2.1	11/03/23 14:21	
Selenium	mg/kg	<0.52	0.52	11/03/23 14:21	
Silver	mg/kg	<0.52	0.52	11/03/23 14:21	
Vanadium	mg/kg	<2.6	2.6	11/03/23 14:21	

LABORATORY CONTROL SAMPLE: 1667299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	7210	7370	102	47-153	
Arsenic	mg/kg	79	76.9	97	82-118	
Barium	mg/kg	314	321	102	80-120	
Cadmium	mg/kg	145	152	105	79-121	
Chromium	mg/kg	209	232	111	80-121	
Cobalt	mg/kg	218	234	107	80-120	
Copper	mg/kg	130	130	100	83-118	
Iron	mg/kg	12800	11300	88	61-139	
Lead	mg/kg	241	245	102	82-118	
Manganese	mg/kg	502	506	101	79-121	
Molybdenum	mg/kg	191	198	104	79-121	
Nickel	mg/kg	316	337	107	79-121	
Selenium	mg/kg	118	117	99	78-123	
Silver	mg/kg	51.6	50.6	98	78-122	
Vanadium	mg/kg	80.1	84.1	105	77-123	

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QUALITY CONTROL DATA

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

MATRIX SPIKE SAMPLE:		1667880					
Parameter	Units	70275895001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	9400	719	12900	493	75-125	M1
Arsenic	mg/kg	9.5	28.8	35.6	91	75-125	
Barium	mg/kg	38.1	28.8	77.6	138	75-125	M1
Cadmium	mg/kg	0.12J	28.8	27.4	95	75-125	
Chromium	mg/kg	11.8	28.8	43.4	110	75-125	
Cobalt	mg/kg	4.3	28.8	31.9	96	75-125	
Copper	mg/kg	11.0	28.8	38.9	97	75-125	
Iron	mg/kg	11000	288	12900	681	75-125	M1
Lead	mg/kg	31.6	28.8	61.0	102	75-125	
Manganese	mg/kg	222	28.8	266	153	75-125	M1
Molybdenum	mg/kg	0.45J	57.5	54.8	94	75-125	
Nickel	mg/kg	8.6	28.8	37.4	100	75-125	
Selenium	mg/kg	<0.55	28.8	25.5	89	75-125	
Silver	mg/kg	<0.55	14.4	14.7	102	75-125	
Vanadium	mg/kg	21.3	28.8	52.7	109	75-125	

SAMPLE DUPLICATE: 1667879

Parameter	Units	70275895001 Result	Dup Result	RPD	Qualifiers
Aluminum	mg/kg	9400	10300	9	
Arsenic	mg/kg	9.5	8.9	6	
Barium	mg/kg	38.1	41.7	9	
Cadmium	mg/kg	0.12J	<0.14		
Chromium	mg/kg	11.8	14.0	17	
Cobalt	mg/kg	4.3	5.1	17	
Copper	mg/kg	11.0	16.9	43	D6
Iron	mg/kg	11000	12900	16	
Lead	mg/kg	31.6	32.3	2	
Manganese	mg/kg	222	239	7	
Molybdenum	mg/kg	0.45J	<1.1		
Nickel	mg/kg	8.6	9.7	11	
Selenium	mg/kg	<0.55	<0.55		
Silver	mg/kg	<0.55	<0.55		
Vanadium	mg/kg	21.3	23.6	10	

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QUALITY CONTROL DATA

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

QC Batch: 326310

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET TCLP

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70275899002, 70275899003

METHOD BLANK: 1667890

Matrix: Water

Associated Lab Samples: 70275899002, 70275899003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.010	0.010	11/03/23 16:55	
Barium	mg/L	<0.20	0.20	11/03/23 16:55	
Cadmium	mg/L	<0.0025	0.0025	11/03/23 16:55	
Chromium	mg/L	<0.010	0.010	11/03/23 16:55	
Lead	mg/L	<0.0050	0.0050	11/03/23 16:55	
Selenium	mg/L	<0.010	0.010	11/03/23 16:55	
Silver	mg/L	<0.010	0.010	11/03/23 16:55	

METHOD BLANK: 1666667

Matrix: Water

Associated Lab Samples: 70275899002, 70275899003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.010	0.010	11/03/23 18:00	
Barium	mg/L	<0.20	0.20	11/03/23 18:00	
Cadmium	mg/L	<0.0025	0.0025	11/03/23 18:00	
Chromium	mg/L	<0.010	0.010	11/03/23 18:00	
Lead	mg/L	<0.0050	0.0050	11/03/23 18:00	
Selenium	mg/L	<0.010	0.010	11/03/23 18:00	
Silver	mg/L	<0.010	0.010	11/03/23 18:00	

LABORATORY CONTROL SAMPLE: 1667891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.48	96	80-120	
Barium	mg/L	0.5	0.50	99	80-120	
Cadmium	mg/L	0.5	0.50	100	80-120	
Chromium	mg/L	0.5	0.51	102	80-120	
Lead	mg/L	0.5	0.51	101	80-120	
Selenium	mg/L	0.5	0.48	96	80-120	
Silver	mg/L	0.25	0.24	97	80-120	

MATRIX SPIKE SAMPLE: 1667893

Parameter	Units	70276026001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.010	0.1	0.091	91	75-125	

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**QUALITY CONTROL DATA**

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

MATRIX SPIKE SAMPLE: 1667893

Parameter	Units	70276026001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	<0.20	0.1	<0.20	90	75-125	
Cadmium	mg/L	<0.0025	0.1	0.094	94	75-125	
Chromium	mg/L	<0.010	0.1	0.098	97	75-125	
Lead	mg/L	0.17	0.1	0.26	90	75-125	
Selenium	mg/L	<0.010	0.1	0.088	88	75-125	
Silver	mg/L	<0.010	0.05	0.045	90	75-125	

SAMPLE DUPLICATE: 1667892

Parameter	Units	70276026001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	<0.010	<0.010		
Barium	mg/L	<0.20	<0.20		
Cadmium	mg/L	<0.0025	<0.0025		
Chromium	mg/L	<0.010	<0.010		
Lead	mg/L	0.17	0.17	1	
Selenium	mg/L	<0.010	<0.010		
Silver	mg/L	<0.010	<0.010		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

QC Batch: 331233

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET TCLP

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70275899001

METHOD BLANK: 1697319

Matrix: Water

Associated Lab Samples: 70275899001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/L	<0.010	0.010	12/19/23 17:34	

METHOD BLANK: 1669849

Matrix: Water

Associated Lab Samples: 70275899001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/L	<0.050	0.050	12/19/23 17:52	

LABORATORY CONTROL SAMPLE: 1697320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	0.5	0.48	96	80-120	

MATRIX SPIKE SAMPLE: 1697322

Parameter	Units	70275899001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	<0.050	0.5	0.48	95	75-125	

SAMPLE DUPLICATE: 1697321

Parameter	Units	70275899001 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

QC Batch:	325952	Analysis Method:	ASTM D2216-05M
QC Batch Method:	ASTM D2216-05M	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70275899001, 70275899002, 70275899003

SAMPLE DUPLICATE: 1665498

Parameter	Units	70275896001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.1	7.0	1	

SAMPLE DUPLICATE: 1665499

Parameter	Units	70276026001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	0.82	0.84	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 326352

[1] The post digestion spike for sample 70276026001 (PDS 1668164) did not meet acceptance criteria for Silver.

Batch: 326357

[1] The serial dilution for sample 70275895001 (SD 1668171) did not meet acceptance criteria for Arsenic, Calcium, Iron, Sodium, Tin, and Zinc.

[2] The post digestions spike for sample 70275895001 (PDS 1668172) did not meet acceptance criteria for all analytes except for Potassium.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WASTEWATER TREATMENT SL 10/28

Pace Project No.: 70275899

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70275899001	VAULT	EPA 3050B	326198	EPA 6010C	326357
70275899002	CACO3 TI#2	EPA 3050B	326198	EPA 6010C	326357
70275899003	CACO3 TI#1	EPA 3050B	326198	EPA 6010C	326357
70275899001	VAULT	EPA 3005A	331233	EPA 6010C	331269
70275899002	CACO3 TI#2	EPA 3005A	326310	EPA 6010C	326352
70275899003	CACO3 TI#1	EPA 3005A	326310	EPA 6010C	326352
70275899002	CACO3 TI#2	EPA 7470A	326524	EPA 7470A	326544
70275899003	CACO3 TI#1	EPA 7470A	326524	EPA 7470A	326544
70275899001	VAULT	EPA 7471B	326642	EPA 7471B	326729
70275899002	CACO3 TI#2	EPA 7471B	326642	EPA 7471B	326729
70275899003	CACO3 TI#1	EPA 7471B	326642	EPA 7471B	326729
70275899001	VAULT	ASTM D2216-05M	325952		
70275899002	CACO3 TI#2	ASTM D2216-05M	325952		
70275899003	CACO3 TI#1	ASTM D2216-05M	325952		

REPORT OF LABORATORY ANALYSIS

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WIO#: 70275899



70275899

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace* Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

Contact/Report To: McCoy, Mary

Company Name: Ducommun Aerostructures
Street Address: 171 Stacy Road, Cocksackie, NY 12051

Phone #: mmccoy@ducommun.com
E-Mail:
Cc E-Mail:

Customer Project #: Wastewater Treatment Sludge
Project Name:

Site Collection Info/Facility ID (as applicable):

County / State origin of sample(s): New York

Regulatory Program (DW, RCRA, etc.) as applicable:
DW PWSID # or WW Permit # as applicable:

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Rush (Pre-approval required):
[] 2 Day [] 3 day [] 5 day [] Other

Field Filtered (if applicable): [] Yes [] No

Analysis: _____

Date Results Requested: _____

Matrix * _____

Customer Sample ID _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

Time _____

Date _____

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**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL, (7) 10mL, (8) TerraCore, (9) Other

***Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaFOS, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Identify Container Preservative Type**

Analysis Requested

Proj. Mgr:

Matthew Nemeth

Account / Client ID:

Table #:

Profile / Template:

Prelog / Bottle Ord. ID:

1151343

Sample Comment

Preservation non-conformance identified for sample.

Lab Use Only

SEE BACK

RCRA Metals

X

X

X

X

X

X

X

X

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Additional Instructions from Pace:

Thermometer ID: TH198

Correction Factor (°C): +0.3

Obs. Temp. (°C): 0.6

Corrected Temp. (°C): 0.9

Tracking Number:

10/30/23 930

Date/Time:

10/30/23 930

Date/Time:

10/30/23 930

Date/Time:

10/30/23 930

Date/Time:

10/30/23 930

Date/Time:

10/30/23 930

Date/Time:

Collected By: MARY A MCCOY

Printed Name: MARY A MCCOY

Signature: MARY A MCCOY

Received by Company (Signature): MARY A MCCOY

Received by Company (Signature): MARY A MCCOY

Received by Company (Signature): MARY A MCCOY

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Received by Company (Signature): MARY A MCCOY

Received by Company (Signature): MARY A MCCOY

Customer Remarks / Special Conditions / Possible Hazards:

PLASTIC BAG

Relinquished by Company (Signature): MARY A MCCOY

Relinquished by Company (Signature): MARY A MCCOY

Relinquished by Company (Signature): MARY A MCCOY

Relinquished by Company (Signature): MARY A MCCOY

Relinquished by Company (Signature): MARY A MCCOY

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Date/Time: 10/30/23 0930

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Date/Time: 10/30/23 1600

Date/Time: 10/30/23 1600

WO#: 70275899

PM: MN2
CLIENT: DUCO

Due Date: 11/14/23

Client Name: Duco

Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TH98 Correction Factor: +0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature (°C): 0.6 Cooler Temperature Corrected (°C): 0.9 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6 °C
USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☒ No

Did samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.
Date and Initials of person examining contents: RB 10/3/23

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6.
Rush Turn Around Time Requested	☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	10.
Containers Intact:	☒ Yes ☐ No	11. Note: if sediment is visible in the dissolved container.
Filtered volume received for Dissolved tests	☒ Yes ☐ No ☐ N/A	12.
Sample Labels match COC:	☒ Yes ☐ No	
-Includes date/time/ID/Analysis:	Matrix: ☒ SOIL ☐ WATER ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation: RB

All containers needing preservation have been	☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, ☒ Yes ☐ No ☐ N/A NAOH > 12 Cyanide)		
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination: ☒ Yes ☐ No ☐ N/A	Initial when completed:	Lot # of added preservative:
KI starch test strips Lot #		Date/Time preservative added:
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sul ☒ Yes ☐ No ☐ N/A	14. Positive for Res., Chlorine? Y N	
Lead Acetate Strips Lot #	15. Positive for Sulfide? Y N	
Headspace in VOA Vials (>6mm): ☒ Yes ☐ No ☐ N/A	16.	
Trip Blank Present: ☒ Yes ☐ No ☐ N/A	17.	
Trip Blank Custody Seals Present ☒ Yes ☐ No ☐ N/A		

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Attachment 04

Wastewater Analytical



August 30, 2023

Mary McCoy
Ducommun Aerostructures
171 Stacy Road
Coxsackie, NY 12051

RE: Project: SEMI ANNUAL 8/8
Pace Project No.: 70266147

Dear Mary McCoy:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matthew T. Nemeth
matthew.nemeth@pacelabs.com
516-370-6042
Project Manager

Enclosures

cc: Linda Barley, Ducommun Aerostructures
Pedro Dumaua, Ducommun Aerostructures
Eugenia Lighthouse, Ducommun Incorporated



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70266147001	EFFLUENT	EPA 608.3	CGTA	9	PACE-MV
		EPA 608.3	CGTA	22	PACE-MV
		EPA 200.7	JWT	7	PACE-MV
		SM22 3500-Cr B	DJM	1	PACE-MV
		EPA 300.0	RESE	1	PACE-MV
		EPA 350.1	BNK	1	PACE-MV
70266147002	EFFLUENT	EPA 625.1	RP1	62	PACE-MV
		EPA 624.1	TJD	39	PACE-MV
		SM22 4500-H+B	NAA	2	PACE-MV
		EPA 335.4	CMT	1	PASI-PA
70266147003	TRIP BLANK	EPA 624.1	TJD	39	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Sample: EFFLUENT		Lab ID: 70266147001		Collected: 08/08/23 11:30		Received: 08/08/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
608.3 GCSV PCB									
Analytical Method: EPA 608.3 Preparation Method: EPA 608.3									
Pace Analytical Services - Melville									
PCB-1016 (Aroclor 1016)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	12674-11-2		
PCB-1221 (Aroclor 1221)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	11104-28-2		
PCB-1232 (Aroclor 1232)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	11141-16-5		
PCB-1242 (Aroclor 1242)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	53469-21-9		
PCB-1248 (Aroclor 1248)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	12672-29-6		
PCB-1254 (Aroclor 1254)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	11097-69-1		
PCB-1260 (Aroclor 1260)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:27	11096-82-5		
Surrogates									
Tetrachloro-m-xylene (S)	76	%	10-152	1	08/15/23 13:08	08/16/23 19:27	877-09-8		
Decachlorobiphenyl (S)	30	%	10-124	1	08/15/23 13:08	08/16/23 19:27	2051-24-3		
608.3 GCSV Pesticides									
Analytical Method: EPA 608.3 Preparation Method: EPA 608.3									
Pace Analytical Services - Melville									
Aldrin	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	309-00-2		
alpha-BHC	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	319-84-6		
beta-BHC	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	319-85-7		
delta-BHC	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	319-86-8		
gamma-BHC (Lindane)	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	58-89-9		
Chlordane (Technical)	<1.0	ug/L	1.0	1	08/15/23 13:08	08/16/23 19:21	57-74-9	L1	
4,4'-DDD	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	72-54-8		
4,4'-DDE	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	72-55-9		
4,4'-DDT	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	50-29-3		
Dieldrin	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	60-57-1		
Endosulfan I	0.21	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	959-98-8		
Endosulfan II	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	33213-65-9		
Endosulfan sulfate	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	1031-07-8		
Endrin	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	72-20-8		
Endrin aldehyde	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	7421-93-4		
Heptachlor	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	76-44-8		
Heptachlor epoxide	<0.050	ug/L	0.050	1	08/15/23 13:08	08/16/23 19:21	1024-57-3		
Methoxychlor	<0.50	ug/L	0.50	1	08/15/23 13:08	08/16/23 19:21	72-43-5		
Mirex	<0.10	ug/L	0.10	1	08/15/23 13:08	08/16/23 19:21	2385-85-5		
Toxaphene	<5.0	ug/L	5.0	1	08/15/23 13:08	08/16/23 19:21	8001-35-2		
Surrogates									
Tetrachloro-m-xylene (S)	82	%	10-152	1	08/15/23 13:08	08/16/23 19:21	877-09-8		
Decachlorobiphenyl (S)	32	%	10-124	1	08/15/23 13:08	08/16/23 19:21	2051-24-3		
200.7 Metals, Total									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Melville									
Cadmium	<2.5	ug/L	2.5	1	08/10/23 07:26	08/10/23 14:21	7440-43-9		
Chromium	39.9	ug/L	10.0	1	08/10/23 07:26	08/10/23 14:21	7440-47-3		
Copper	<25.0	ug/L	25.0	1	08/10/23 07:26	08/10/23 14:21	7440-50-8		
Lead	<5.0	ug/L	5.0	1	08/10/23 07:26	08/10/23 14:21	7439-92-1		
Nickel	<40.0	ug/L	40.0	1	08/10/23 07:26	08/10/23 14:21	7440-02-0		
Silver	<10.0	ug/L	10.0	1	08/10/23 07:26	08/10/23 14:21	7440-22-4		
Zinc	<20.0	ug/L	20.0	1	08/10/23 07:26	08/10/23 14:21	7440-66-6		

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ANALYTICAL RESULTS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Sample: EFFLUENT		Lab ID: 70266147001	Collected: 08/08/23 11:30	Received: 08/08/23 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		08/11/23 00:41	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Fluoride	12.1	mg/L	0.20	2		08/22/23 09:35	16984-48-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		08/13/23 13:30	7664-41-7	

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ANALYTICAL RESULTS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Sample: EFFLUENT		Lab ID: 70266147002		Collected: 08/08/23 11:36		Received: 08/08/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Chlorine and pH		Analytical Method:							
		Pace Analytical Services - Melville							
Field Temperature	25.0	deg C		1		08/08/23 11:36		N3	
Field pH	6.94	Std. Units		1		08/08/23 11:36		N3	
625.1 MSSV		Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 SF							
		Pace Analytical Services - Melville							
Acenaphthene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	83-32-9		
Acenaphthylene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	208-96-8		
Anthracene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	120-12-7		
Benidine	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	92-87-5		
Benzo(a)anthracene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	56-55-3		
Benzo(a)pyrene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	50-32-8		
Benzo(b)fluoranthene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	205-99-2		
Benzo(g,h,i)perylene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	191-24-2		
Benzo(k)fluoranthene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	207-08-9		
4-Bromophenylphenyl ether	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	101-55-3		
Butylbenzylphthalate	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	85-68-7		
4-Chloro-3-methylphenol	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	59-50-7		
bis(2-Chloroethoxy)methane	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	111-91-1		
bis(2-Chloroethyl) ether	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	111-44-4		
2-Chloronaphthalene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	91-58-7		
2-Chlorophenol	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	95-57-8		
4-Chlorophenylphenyl ether	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	7005-72-3		
Chrysene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	218-01-9		
Dibenz(a,h)anthracene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	53-70-3		
3,3'-Dichlorobenzidine	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	91-94-1		
2,4-Dichlorophenol	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	120-83-2		
Diethylphthalate	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	84-66-2		
2,4-Dimethylphenol	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	105-67-9		
Dimethylphthalate	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	131-11-3		
Di-n-butylphthalate	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	84-74-2		
4,6-Dinitro-2-methylphenol	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	534-52-1		
2,4-Dinitrophenol	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	51-28-5		
2,4-Dinitrotoluene	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	121-14-2		
2,6-Dinitrotoluene	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	606-20-2		
Di-n-octylphthalate	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	117-84-0		
bis(2-Ethylhexyl)phthalate	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	117-81-7		
Fluoranthene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	206-44-0		
Fluorene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	86-73-7		
Hexachloro-1,3-butadiene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	87-68-3		
Hexachlorobenzene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	118-74-1		
Hexachlorocyclopentadiene	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	77-47-4		
Hexachloroethane	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	67-72-1		
Indeno(1,2,3-cd)pyrene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	193-39-5		
Isophorone	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	78-59-1		
Naphthalene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	91-20-3		
Nitrobenzene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	98-95-3		

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ANALYTICAL RESULTS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Sample: EFFLUENT		Lab ID: 70266147002		Collected: 08/08/23 11:36		Received: 08/08/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
625.1 MSSV		Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 SF Pace Analytical Services - Melville							
2-Nitrophenol	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	88-75-5		
4-Nitrophenol	<9.6	ug/L	9.6	1	08/11/23 22:56	08/14/23 22:42	100-02-7		
N-Nitrosodimethylamine	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	62-75-9		
N-Nitroso-di-n-propylamine	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	621-64-7		
N-Nitrosodiphenylamine	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	86-30-6		
2,2'-Oxybis(1-chloropropane)	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	108-60-1		
Pentachlorophenol	<4.8	ug/L	4.8	1	08/11/23 22:56	08/14/23 22:42	87-86-5		
Phenanthrene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	85-01-8		
Phenol	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	108-95-2		
Pyrene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	129-00-0		
1,2,4-Trichlorobenzene	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	120-82-1		
2,4,5-Trichlorophenol	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	95-95-4		
2,4,6-Trichlorophenol	<0.96	ug/L	0.96	1	08/11/23 22:56	08/14/23 22:42	88-06-2		
Surrogates									
2-Fluorophenol (S)	34	%	4-79	1	08/11/23 22:56	08/14/23 22:42	367-12-4		
Phenol-d5 (S)	22	%	5-55	1	08/11/23 22:56	08/14/23 22:42	4165-62-2		
Nitrobenzene-d5 (S)	73	%	45-110	1	08/11/23 22:56	08/14/23 22:42	4165-60-0		
2-Fluorobiphenyl (S)	72	%	43-114	1	08/11/23 22:56	08/14/23 22:42	321-60-8		
2,4,6-Tribromophenol (S)	74	%	23-146	1	08/11/23 22:56	08/14/23 22:42	118-79-6		
p-Terphenyl-d14 (S)	71	%	27-144	1	08/11/23 22:56	08/14/23 22:42	1718-51-0		
1,2-Dichlorobenzene-d4 (S)	61	%	32-100	1	08/11/23 22:56	08/14/23 22:42	2199-69-1		
2-Chlorophenol-d4 (S)	57	%	37-96	1	08/11/23 22:56	08/14/23 22:42	93951-73-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/09/23 16:02	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/09/23 16:02	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/09/23 16:02	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/09/23 16:02	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/09/23 16:02	75-35-4		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		08/09/23 16:02	95-50-1		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/09/23 16:02	107-06-2		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/09/23 16:02	78-87-5		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		08/09/23 16:02	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		08/09/23 16:02	106-46-7		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		08/09/23 16:02	110-75-8		
Acrolein	<1.0	ug/L	1.0	1		08/09/23 16:02	107-02-8		
Acrylonitrile	<1.0	ug/L	1.0	1		08/09/23 16:02	107-13-1		
Benzene	<1.0	ug/L	1.0	1		08/09/23 16:02	71-43-2		
Bromodichloromethane	3.7	ug/L	1.0	1		08/09/23 16:02	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		08/09/23 16:02	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		08/09/23 16:02	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/09/23 16:02	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		08/09/23 16:02	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		08/09/23 16:02	75-00-3		
Chloroform	34.5	ug/L	1.0	1		08/09/23 16:02	67-66-3		

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ANALYTICAL RESULTS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Sample: EFFLUENT		Lab ID: 70266147002		Collected: 08/08/23 11:36		Received: 08/08/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Chloromethane	<1.0	ug/L	1.0	1		08/09/23 16:02	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/09/23 16:02	124-48-1		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		08/09/23 16:02	75-71-8		
Ethylbenzene	<1.0	ug/L	1.0	1		08/09/23 16:02	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		08/09/23 16:02	75-09-2		
Tetrachloroethene	<1.0	ug/L	1.0	1		08/09/23 16:02	127-18-4		
Toluene	<1.0	ug/L	1.0	1		08/09/23 16:02	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		08/09/23 16:02	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		08/09/23 16:02	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		08/09/23 16:02	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		08/09/23 16:02	1330-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/09/23 16:02	156-59-2		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/09/23 16:02	10061-01-5		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/09/23 16:02	156-60-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/09/23 16:02	10061-02-6		
Surrogates									
4-Bromofluorobenzene (S)	101	%	73-122	1		08/09/23 16:02	460-00-4		
Toluene-d8 (S)	97	%	75-122	1		08/09/23 16:02	2037-26-5		
1,2-Dichloroethane-d4 (S)	91	%	80-120	1		08/09/23 16:02	17060-07-0		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.8	Std. Units	0.10	1		08/17/23 10:31		H3,H6, N3	
Temperature, Water (C)	10.0	deg C	0.10	1		08/17/23 10:31		H3,H6	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Greensburg							
Cyanide	<0.010	mg/L	0.010	1	08/22/23 08:28	08/22/23 11:51	57-12-5		

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ANALYTICAL RESULTS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Sample: TRIP BLANK		Lab ID: 70266147003		Collected: 08/08/23 00:00		Received: 08/08/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/09/23 15:39	71-55-6	v3	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/09/23 15:39	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/09/23 15:39	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/09/23 15:39	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/09/23 15:39	75-35-4		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		08/09/23 15:39	95-50-1		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/09/23 15:39	107-06-2		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/09/23 15:39	78-87-5		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		08/09/23 15:39	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		08/09/23 15:39	106-46-7		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		08/09/23 15:39	110-75-8		
Acrolein	<1.0	ug/L	1.0	1		08/09/23 15:39	107-02-8		
Acrylonitrile	<1.0	ug/L	1.0	1		08/09/23 15:39	107-13-1		
Benzene	<1.0	ug/L	1.0	1		08/09/23 15:39	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		08/09/23 15:39	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		08/09/23 15:39	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		08/09/23 15:39	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/09/23 15:39	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		08/09/23 15:39	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		08/09/23 15:39	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		08/09/23 15:39	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		08/09/23 15:39	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		08/09/23 15:39	124-48-1		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		08/09/23 15:39	75-71-8		
Ethylbenzene	<1.0	ug/L	1.0	1		08/09/23 15:39	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		08/09/23 15:39	75-09-2		
Tetrachloroethene	<1.0	ug/L	1.0	1		08/09/23 15:39	127-18-4		
Toluene	<1.0	ug/L	1.0	1		08/09/23 15:39	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		08/09/23 15:39	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		08/09/23 15:39	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		08/09/23 15:39	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		08/09/23 15:39	1330-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/09/23 15:39	156-59-2		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/09/23 15:39	10061-01-5		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/09/23 15:39	156-60-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/09/23 15:39	10061-02-6		
Surrogates									
4-Bromofluorobenzene (S)	101	%	73-122	1		08/09/23 15:39	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		08/09/23 15:39	2037-26-5		
1,2-Dichloroethane-d4 (S)	92	%	80-120	1		08/09/23 15:39	17060-07-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 315737

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147001

METHOD BLANK: 1607022

Matrix: Water

Associated Lab Samples: 70266147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<2.5	2.5	08/10/23 13:10	
Chromium	ug/L	<10.0	10.0	08/10/23 13:10	
Copper	ug/L	<25.0	25.0	08/10/23 13:10	
Lead	ug/L	<5.0	5.0	08/10/23 13:10	
Nickel	ug/L	<40.0	40.0	08/10/23 13:10	
Silver	ug/L	<10.0	10.0	08/10/23 13:10	
Zinc	ug/L	<20.0	20.0	08/10/23 13:10	

LABORATORY CONTROL SAMPLE: 1607023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	500	496	99	85-115	
Chromium	ug/L	500	486	97	85-115	
Copper	ug/L	500	498	100	85-115	
Lead	ug/L	500	508	102	85-115	
Nickel	ug/L	500	495	99	85-115	
Silver	ug/L	250	242	97	85-115	
Zinc	ug/L	500	503	101	85-115	

MATRIX SPIKE SAMPLE: 1607025

Parameter	Units	70266024006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	<2.5	500	518	104	70-130	
Chromium	ug/L	<10.0	500	505	101	70-130	
Copper	ug/L	<25.0	500	521	104	70-130	
Lead	ug/L	<5.0	500	528	106	70-130	
Nickel	ug/L	<40.0	500	493	98	70-130	
Silver	ug/L	<10.0	250	197	79	70-130	
Zinc	ug/L	<20.0	500	523	104	70-130	

SAMPLE DUPLICATE: 1607024

Parameter	Units	70266024006 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	<2.5	<2.5		
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

SAMPLE DUPLICATE: 1607024

Parameter	Units	70266024006 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<5.0	<5.0		
Nickel	ug/L	<40.0	<40.0		
Silver	ug/L	<10.0	<10.0		
Zinc	ug/L	<20.0	<20.0		

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 315676

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147002, 70266147003

METHOD BLANK: 1606546

Matrix: Water

Associated Lab Samples: 70266147002, 70266147003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/09/23 12:14	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/09/23 12:14	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/09/23 12:14	
1,1-Dichloroethane	ug/L	<1.0	1.0	08/09/23 12:14	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/09/23 12:14	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	08/09/23 12:14	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/09/23 12:14	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/09/23 12:14	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	08/09/23 12:14	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	08/09/23 12:14	
2-Chloroethylvinyl ether	ug/L	<1.0	1.0	08/09/23 12:14	
Acrolein	ug/L	<1.0	1.0	08/09/23 12:14	
Acrylonitrile	ug/L	<1.0	1.0	08/09/23 12:14	
Benzene	ug/L	<1.0	1.0	08/09/23 12:14	
Bromodichloromethane	ug/L	<1.0	1.0	08/09/23 12:14	
Bromoform	ug/L	<1.0	1.0	08/09/23 12:14	
Bromomethane	ug/L	<1.0	1.0	08/09/23 12:14	
Carbon tetrachloride	ug/L	<1.0	1.0	08/09/23 12:14	
Chlorobenzene	ug/L	<1.0	1.0	08/09/23 12:14	
Chloroethane	ug/L	<1.0	1.0	08/09/23 12:14	
Chloroform	ug/L	<1.0	1.0	08/09/23 12:14	
Chloromethane	ug/L	<1.0	1.0	08/09/23 12:14	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	08/09/23 12:14	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/09/23 12:14	
Dibromochloromethane	ug/L	<1.0	1.0	08/09/23 12:14	
Dichlorodifluoromethane	ug/L	<1.0	1.0	08/09/23 12:14	v3
Ethylbenzene	ug/L	<1.0	1.0	08/09/23 12:14	
Methylene Chloride	ug/L	<1.0	1.0	08/09/23 12:14	
Tetrachloroethene	ug/L	<1.0	1.0	08/09/23 12:14	
Toluene	ug/L	<1.0	1.0	08/09/23 12:14	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	08/09/23 12:14	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/09/23 12:14	
Trichloroethene	ug/L	<1.0	1.0	08/09/23 12:14	
Trichlorofluoromethane	ug/L	<1.0	1.0	08/09/23 12:14	
Vinyl chloride	ug/L	<1.0	1.0	08/09/23 12:14	
Xylene (Total)	ug/L	<1.0	1.0	08/09/23 12:14	
1,2-Dichloroethane-d4 (S)	%	90	80-120	08/09/23 12:14	
4-Bromofluorobenzene (S)	%	100	73-122	08/09/23 12:14	
Toluene-d8 (S)	%	97	75-122	08/09/23 12:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

LABORATORY CONTROL SAMPLE: 1606547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.1	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.3	87	60-140	
1,1,2-Trichloroethane	ug/L	20	19.3	96	70-130	
1,1-Dichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	20	18.1	91	70-130	
1,2-Dichlorobenzene	ug/L	20	18.8	94	65-135	
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	35-165	
1,3-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,4-Dichlorobenzene	ug/L	20	18.9	94	65-135	
2-Chloroethylvinyl ether	ug/L	20	21.5	107	10-225	
Acrolein	ug/L	20	20.4	102	60-140	
Acrylonitrile	ug/L	20	17.7	89	60-140	
Benzene	ug/L	20	19.8	99	65-135	
Bromodichloromethane	ug/L	20	18.3	91	65-135	
Bromoform	ug/L	20	17.1	86	70-130	
Bromomethane	ug/L	20	9.3	47	15-185 IH	
Carbon tetrachloride	ug/L	20	18.2	91	70-130	
Chlorobenzene	ug/L	20	19.7	98	65-135	
Chloroethane	ug/L	20	19.0	95	40-160	
Chloroform	ug/L	20	20.0	100	70-135	
Chloromethane	ug/L	20	14.0	70	10-205	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	62-135	
cis-1,3-Dichloropropene	ug/L	20	17.7	88	25-175	
Dibromochloromethane	ug/L	20	18.2	91	70-135	
Dichlorodifluoromethane	ug/L	20	10.9	54	10-146 v3	
Ethylbenzene	ug/L	20	19.6	98	60-140	
Methylene Chloride	ug/L	20	19.9	100	60-140	
Tetrachloroethene	ug/L	20	16.6	83	65-135	
Toluene	ug/L	20	20.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	50-150	
Trichloroethene	ug/L	20	19.4	97	65-135	
Trichlorofluoromethane	ug/L	20	19.9	99	50-150	
Vinyl chloride	ug/L	20	17.1	85	5-195	
Xylene (Total)	ug/L	60	59.1	99	73-123	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			103	73-122	
Toluene-d8 (S)	%			96	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1606706 1606707

Parameter	Units	70266147002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	20	20	18.5	17.5	92	88	70-130	5	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1606706 1606707											
Parameter	Units	70266147002		MS	MSD	1606707		MS	MSD	% Rec	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	20	17.1	16.5	85	82	60-140	3
1,1,2-Trichloroethane	ug/L	<1.0	20	20	20	19.2	18.5	96	93	70-130	4
1,1-Dichloroethane	ug/L	<1.0	20	20	20	19.9	18.3	100	91	70-130	9
1,1-Dichloroethene	ug/L	<1.0	20	20	20	17.9	17.3	90	87	70-130	3
1,2-Dichlorobenzene	ug/L	<1.0	20	20	20	18.3	18.5	92	92	65-135	1
1,2-Dichloroethane	ug/L	<1.0	20	20	20	19.3	18.4	97	92	70-130	5
1,2-Dichloropropane	ug/L	<1.0	20	20	20	18.8	18.1	94	90	35-165	4
1,3-Dichlorobenzene	ug/L	<1.0	20	20	20	18.3	18.4	92	92	70-130	1
1,4-Dichlorobenzene	ug/L	<1.0	20	20	20	18.2	18.3	91	91	65-135	0
2-Chloroethylvinyl ether	ug/L	<1.0	20	20	20	18.3	14.6	91	73	10-225	22
Acrolein	ug/L	<1.0	20	20	20	21.1	25.9	106	129	60-140	20
Acrylonitrile	ug/L	<1.0	20	20	20	17.7	16.8	89	84	60-140	6
Benzene	ug/L	<1.0	20	20	20	19.7	18.9	98	94	65-135	4
Bromodichloromethane	ug/L	3.7	20	20	20	21.3	20.7	88	85	65-135	3
Bromoform	ug/L	<1.0	20	20	20	15.7	15.3	78	77	70-130	2
Bromomethane	ug/L	<1.0	20	20	20	4.3	5.1	22	25	15-185	16 IH
Carbon tetrachloride	ug/L	<1.0	20	20	20	18.4	17.0	92	85	70-130	7
Chlorobenzene	ug/L	<1.0	20	20	20	19.3	18.3	96	91	65-135	5
Chloroethane	ug/L	<1.0	20	20	20	17.8	16.5	89	83	40-160	7
Chloroform	ug/L	34.5	20	20	20	53.0	50.8	93	81	70-135	4
Chloromethane	ug/L	<1.0	20	20	20	10.2	10.0	51	50	10-205	2
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	20	20.2	18.9	101	94	62-135	7
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	20	16.5	15.7	83	78	25-175	5
Dibromochloromethane	ug/L	<1.0	20	20	20	17.1	16.4	85	82	70-135	4
Dichlorodifluoromethane	ug/L	<1.0	20	20	20	7.5	7.1	37	35	10-146	6 v3
Ethylbenzene	ug/L	<1.0	20	20	20	19.5	18.8	98	94	60-140	4
Methylene Chloride	ug/L	<1.0	20	20	20	21.3	20.6	106	103	60-140	3
Tetrachloroethene	ug/L	<1.0	20	20	20	16.7	16.4	84	82	65-135	2
Toluene	ug/L	<1.0	20	20	20	20.6	19.6	103	98	70-130	5
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	20	22.3	20.7	112	103	70-130	8
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	20	15.9	14.6	79	73	50-150	8
Trichloroethene	ug/L	<1.0	20	20	20	19.6	18.8	98	94	65-135	4
Trichlorofluoromethane	ug/L	<1.0	20	20	20	18.1	17.3	91	87	50-150	5
Vinyl chloride	ug/L	<1.0	20	20	20	14.2	12.9	71	64	5-195	9
Xylene (Total)	ug/L	<1.0	60	60	60	59.5	56.9	99	95	73-123	4
1,2-Dichloroethane-d4 (S)	%							90	90	80-120	
4-Bromofluorobenzene (S)	%							103	101	73-122	
Toluene-d8 (S)	%							96	96	75-122	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 316402

Analysis Method: EPA 608.3

QC Batch Method: EPA 608.3

Analysis Description: 608.3 GCSV PCB

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147001

METHOD BLANK: 1610595

Matrix: Water

Associated Lab Samples: 70266147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<1.0	1.0	08/16/23 18:49	
PCB-1221 (Aroclor 1221)	ug/L	<1.0	1.0	08/16/23 18:49	
PCB-1232 (Aroclor 1232)	ug/L	<1.0	1.0	08/16/23 18:49	
PCB-1242 (Aroclor 1242)	ug/L	<1.0	1.0	08/16/23 18:49	
PCB-1248 (Aroclor 1248)	ug/L	<1.0	1.0	08/16/23 18:49	
PCB-1254 (Aroclor 1254)	ug/L	<1.0	1.0	08/16/23 18:49	
PCB-1260 (Aroclor 1260)	ug/L	<1.0	1.0	08/16/23 18:49	
Decachlorobiphenyl (S)	%	83	10-124	08/16/23 18:49	
Tetrachloro-m-xylene (S)	%	79	10-152	08/16/23 18:49	

LABORATORY CONTROL SAMPLE & LCSD: 1610596

1610597

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	3.7	3.9	73	78	50-140	6	30	
PCB-1260 (Aroclor 1260)	ug/L	5	3.9	3.9	78	78	8-140	1	30	
Decachlorobiphenyl (S)	%				64	66	10-124		30	
Tetrachloro-m-xylene (S)	%				74	75	10-152		30	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8
Pace Project No.: 70266147

QC Batch:	316401	Analysis Method:	EPA 608.3
QC Batch Method:	EPA 608.3	Analysis Description:	608.3 GCSV Pesticides
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70266147001

METHOD BLANK: 1610590 Matrix: Water

Associated Lab Samples: 70266147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.10	08/16/23 18:13	
4,4'-DDE	ug/L	ND	0.10	08/16/23 18:13	
4,4'-DDT	ug/L	ND	0.10	08/16/23 18:13	
Aldrin	ug/L	ND	0.050	08/16/23 18:13	
alpha-BHC	ug/L	ND	0.050	08/16/23 18:13	
beta-BHC	ug/L	ND	0.050	08/16/23 18:13	
Chlordane (Technical)	ug/L	ND	1.0	08/16/23 18:13	
delta-BHC	ug/L	ND	0.050	08/16/23 18:13	
Dieldrin	ug/L	ND	0.10	08/16/23 18:13	
Endosulfan I	ug/L	ND	0.050	08/16/23 18:13	
Endosulfan II	ug/L	ND	0.10	08/16/23 18:13	
Endosulfan sulfate	ug/L	ND	0.10	08/16/23 18:13	
Endrin	ug/L	ND	0.10	08/16/23 18:13	
Endrin aldehyde	ug/L	ND	0.10	08/16/23 18:13	
gamma-BHC (Lindane)	ug/L	ND	0.050	08/16/23 18:13	
Heptachlor	ug/L	ND	0.050	08/16/23 18:13	
Heptachlor epoxide	ug/L	ND	0.050	08/16/23 18:13	
Methoxychlor	ug/L	ND	0.50	08/16/23 18:13	
Mirex	ug/L	ND	0.10	08/16/23 18:13	
Toxaphene	ug/L	ND	5.0	08/16/23 18:13	
Decachlorobiphenyl (S)	%	103	10-124	08/16/23 18:13	
Tetrachloro-m-xylene (S)	%	87	10-152	08/16/23 18:13	

LABORATORY CONTROL SAMPLE & LCSD: 1610591

Parameter	Units	1610592								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
4,4'-DDD	ug/L	0.4	0.30	0.28	76	70	31-141	8	30	
4,4'-DDE	ug/L	0.4	0.26	0.25	65	62	30-145	4	30	
4,4'-DDT	ug/L	0.4	0.24	0.20	61	50	25-160	20	30	
Aldrin	ug/L	0.4	0.25	0.24	63	60	42-140	5	30	
alpha-BHC	ug/L	0.4	0.26	0.25	66	62	37-140	6	30	
beta-BHC	ug/L	0.4	0.29	0.27	72	68	17-147	6	30	
delta-BHC	ug/L	0.4	0.31	0.29	78	73	19-140	6	30	
Dieldrin	ug/L	0.4	0.30	0.28	74	71	36-146	5	30	
Endosulfan I	ug/L	0.4	0.24	0.23	60	57	45-153	5	30	
Endosulfan II	ug/L	0.4	0.28	0.27	70	66	10-202	5	30	
Endosulfan sulfate	ug/L	0.4	0.31	0.30	78	74	26-144	5	30	
Endrin	ug/L	0.4	0.32	0.30	79	75	30-147	6	30	
Endrin aldehyde	ug/L	0.4	0.37	0.36	94	90	23-163	4	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

LABORATORY CONTROL SAMPLE & LCSD: 1610591		1610592								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
gamma-BHC (Lindane)	ug/L	0.4	0.30	0.28	75	71	32-140	6	30	
Heptachlor	ug/L	0.4	0.26	0.24	64	60	34-140	7	30	
Heptachlor epoxide	ug/L	0.4	0.30	0.29	74	72	37-142	3	30	
Methoxychlor	ug/L	0.4	<0.50	<0.50	74	64	59-151		30	
Mirex	ug/L	0.4	0.20	0.19	51	48	40-160	5	30	
Decachlorobiphenyl (S)	%				80	76	10-124		30	
Tetrachloro-m-xylene (S)	%				65	61	10-152		30	

LABORATORY CONTROL SAMPLE: 1610593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toxaphene	ug/L	20	18.6	93	41-140	
Decachlorobiphenyl (S)	%			102	10-124	
Tetrachloro-m-xylene (S)	%			87	10-152	

LABORATORY CONTROL SAMPLE: 1610594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	ug/L	0.1	<1.0	151	30-150	L1
Decachlorobiphenyl (S)	%			104	10-124	
Tetrachloro-m-xylene (S)	%			86	10-152	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 316106

Analysis Method: EPA 625.1

QC Batch Method: EPA 625.1 SF

Analysis Description: 625.1 MSSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147002

METHOD BLANK: 1609131

Matrix: Water

Associated Lab Samples: 70266147002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/14/23 14:02	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	1.0	08/14/23 14:02	
2,4,5-Trichlorophenol	ug/L	ND	1.0	08/14/23 14:02	
2,4,6-Trichlorophenol	ug/L	ND	1.0	08/14/23 14:02	
2,4-Dichlorophenol	ug/L	ND	1.0	08/14/23 14:02	
2,4-Dimethylphenol	ug/L	ND	5.0	08/14/23 14:02	
2,4-Dinitrophenol	ug/L	ND	5.0	08/14/23 14:02	
2,4-Dinitrotoluene	ug/L	ND	5.0	08/14/23 14:02	
2,6-Dinitrotoluene	ug/L	ND	5.0	08/14/23 14:02	
2-Chloronaphthalene	ug/L	ND	1.0	08/14/23 14:02	
2-Chlorophenol	ug/L	ND	1.0	08/14/23 14:02	
2-Nitrophenol	ug/L	ND	5.0	08/14/23 14:02	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	08/14/23 14:02	
4,6-Dinitro-2-methylphenol	ug/L	ND	5.0	08/14/23 14:02	
4-Bromophenylphenyl ether	ug/L	ND	1.0	08/14/23 14:02	
4-Chloro-3-methylphenol	ug/L	ND	1.0	08/14/23 14:02	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	08/14/23 14:02	
4-Nitrophenol	ug/L	ND	10.0	08/14/23 14:02	
Acenaphthene	ug/L	ND	1.0	08/14/23 14:02	
Acenaphthylene	ug/L	ND	1.0	08/14/23 14:02	
Anthracene	ug/L	ND	1.0	08/14/23 14:02	
Benidine	ug/L	ND	5.0	08/14/23 14:02	
Benzo(a)anthracene	ug/L	ND	1.0	08/14/23 14:02	
Benzo(a)pyrene	ug/L	ND	1.0	08/14/23 14:02	
Benzo(b)fluoranthene	ug/L	ND	1.0	08/14/23 14:02	
Benzo(g,h,i)perylene	ug/L	ND	1.0	08/14/23 14:02	
Benzo(k)fluoranthene	ug/L	ND	1.0	08/14/23 14:02	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	08/14/23 14:02	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	08/14/23 14:02	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	08/14/23 14:02	
Butylbenzylphthalate	ug/L	ND	1.0	08/14/23 14:02	
Chrysene	ug/L	ND	1.0	08/14/23 14:02	
Di-n-butylphthalate	ug/L	ND	1.0	08/14/23 14:02	
Di-n-octylphthalate	ug/L	ND	1.0	08/14/23 14:02	
Dibenz(a,h)anthracene	ug/L	ND	1.0	08/14/23 14:02	
Diethylphthalate	ug/L	ND	1.0	08/14/23 14:02	
Dimethylphthalate	ug/L	ND	1.0	08/14/23 14:02	
Fluoranthene	ug/L	ND	1.0	08/14/23 14:02	
Fluorene	ug/L	ND	1.0	08/14/23 14:02	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/14/23 14:02	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

METHOD BLANK: 1609131

Matrix: Water

Associated Lab Samples: 70266147002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachlorobenzene	ug/L	ND	1.0	08/14/23 14:02	
Hexachlorocyclopentadiene	ug/L	ND	5.0	08/14/23 14:02	
Hexachloroethane	ug/L	ND	1.0	08/14/23 14:02	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	08/14/23 14:02	
Isophorone	ug/L	ND	1.0	08/14/23 14:02	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	08/14/23 14:02	
N-Nitrosodimethylamine	ug/L	ND	1.0	08/14/23 14:02	
N-Nitrosodiphenylamine	ug/L	ND	1.0	08/14/23 14:02	
Naphthalene	ug/L	ND	1.0	08/14/23 14:02	
Nitrobenzene	ug/L	ND	1.0	08/14/23 14:02	
Pentachlorophenol	ug/L	ND	5.0	08/14/23 14:02	
Phenanthrene	ug/L	ND	1.0	08/14/23 14:02	
Phenol	ug/L	ND	1.0	08/14/23 14:02	
Pyrene	ug/L	ND	1.0	08/14/23 14:02	
1,2-Dichlorobenzene-d4 (S)	%	59	32-100	08/14/23 14:02	
2,4,6-Tribromophenol (S)	%	73	23-146	08/14/23 14:02	
2-Chlorophenol-d4 (S)	%	65	37-96	08/14/23 14:02	
2-Fluorobiphenyl (S)	%	69	43-114	08/14/23 14:02	
2-Fluorophenol (S)	%	35	4-79	08/14/23 14:02	
Nitrobenzene-d5 (S)	%	75	45-110	08/14/23 14:02	
p-Terphenyl-d14 (S)	%	91	27-144	08/14/23 14:02	
Phenol-d5 (S)	%	26	5-55	08/14/23 14:02	

LABORATORY CONTROL SAMPLE & LCSD: 1609132

1609133

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	25	17.4	16.6	69	66	57-130	5	30	
2,2'-Oxybis(1-chloropropane)	ug/L	25	19.6	16.7	78	67	63-139	16	30	
2,4,5-Trichlorophenol	ug/L	25	22.4	19.9	89	80	61-120	12	30	
2,4,6-Trichlorophenol	ug/L	25	19.8	18.8	79	75	52-129	5	30	
2,4-Dichlorophenol	ug/L	25	18.9	19.2	76	77	53-122	1	30	
2,4-Dimethylphenol	ug/L	25	14.6	14.9	58	60	42-120	2	30	
2,4-Dinitrophenol	ug/L	25	26.5	25.5	106	102	10-173	4	30	
2,4-Dinitrotoluene	ug/L	25	23.0	21.8	92	87	48-127	6	30	
2,6-Dinitrotoluene	ug/L	25	20.6	19.8	82	79	68-137	4	30	
2-Chloronaphthalene	ug/L	25	20.3	17.6	81	70	65-120	14	30	
2-Chlorophenol	ug/L	25	16.9	15.7	68	63	36-120	7	30	
2-Nitrophenol	ug/L	25	18.3	18.7	73	75	45-167	2	30	
3,3'-Dichlorobenzidine	ug/L	25	24.7	23.9	99	95	8-213	4	30	
4,6-Dinitro-2-methylphenol	ug/L	25	26.4	25.8	106	103	53-130	2	30	
4-Bromophenylphenyl ether	ug/L	25	21.5	21.0	86	84	65-120	2	30	
4-Chloro-3-methylphenol	ug/L	25	20.5	20.0	82	80	41-128	3	30	
4-Chlorophenylphenyl ether	ug/L	25	22.1	19.8	89	79	70-130	11	30	
4-Nitrophenol	ug/L	25	10.0	<10.0	40	39	13-129		30	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

LABORATORY CONTROL SAMPLE & LCSD: 1609132			1609133							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	25	20.0	18.7	80	75	60-132	7	30	
Acenaphthylene	ug/L	25	22.1	20.1	89	80	67-115	10	30	
Anthracene	ug/L	25	23.3	22.5	93	90	43-120	3	30	
Benzidine	ug/L	25	26.8	25.9	107	104	10-194	3	30	v1
Benzo(a)anthracene	ug/L	25	22.4	22.2	90	89	42-133	1	30	
Benzo(a)pyrene	ug/L	25	23.9	23.4	96	94	32-148	2	30	
Benzo(b)fluoranthene	ug/L	25	21.1	21.2	85	85	42-140	0	30	
Benzo(g,h,i)perylene	ug/L	25	24.2	22.8	97	91	10-195	6	30	
Benzo(k)fluoranthene	ug/L	25	21.7	22.2	87	89	25-146	2	30	
bis(2-Chloroethoxy)methane	ug/L	25	18.7	18.8	75	75	49-165	1	30	
bis(2-Chloroethyl) ether	ug/L	25	17.1	15.4	68	62	43-126	10	30	
bis(2-Ethylhexyl)phthalate	ug/L	25	22.5	21.4	90	86	29-137	5	30	
Butylbenzylphthalate	ug/L	25	21.6	21.0	87	84	10-140	3	30	
Chrysene	ug/L	25	22.1	21.6	88	86	44-140	2	30	
Di-n-butylphthalate	ug/L	25	23.4	23.4	94	93	8-120	0	30	
Di-n-octylphthalate	ug/L	25	22.5	22.8	90	91	19-132	1	30	
Dibenz(a,h)anthracene	ug/L	25	25.3	23.9	101	96	10-200	6	30	
Diethylphthalate	ug/L	25	22.6	21.0	90	84	10-120	7	30	
Dimethylphthalate	ug/L	25	22.3	20.4	89	82	10-120	9	30	
Fluoranthene	ug/L	25	23.3	23.6	93	94	43-121	1	30	
Fluorene	ug/L	25	23.1	20.7	93	83	70-120	11	30	
Hexachloro-1,3-butadiene	ug/L	25	17.5	15.7	70	63	38-120	11	30	
Hexachlorobenzene	ug/L	25	22.1	21.9	88	87	8-142	1	30	
Hexachlorocyclopentadiene	ug/L	25	11.3	9.6	45	38	10-106	16	30	
Hexachloroethane	ug/L	25	17.3	15.1	69	60	55-120	13	30	
Indeno(1,2,3-cd)pyrene	ug/L	25	23.2	22.5	93	90	10-151	3	30	
Isophorone	ug/L	25	19.1	18.6	76	74	47-180	3	30	
N-Nitroso-di-n-propylamine	ug/L	25	18.8	16.8	75	67	14-198	11	30	
N-Nitrosodimethylamine	ug/L	25	11.2	10.5	45	42	25-72	6	30	
N-Nitrosodiphenylamine	ug/L	25	23.0	22.0	92	88	68-124	4	30	
Naphthalene	ug/L	25	18.0	16.7	72	67	36-120	7	30	
Nitrobenzene	ug/L	25	19.5	17.3	78	69	54-158	12	30	
Pentachlorophenol	ug/L	25	20.7	19.3	83	77	38-152	7	30	
Phenanthrene	ug/L	25	23.6	22.2	94	89	65-120	6	30	
Phenol	ug/L	25	8.5	8.4	34	34	17-120	1	30	
Pyrene	ug/L	25	21.2	20.2	85	81	70-120	5	30	
1,2-Dichlorobenzene-d4 (S)	%				70	60	32-100			
2,4,6-Tribromophenol (S)	%				96	90	23-146			
2-Chlorophenol-d4 (S)	%				69	63	37-96			
2-Fluorobiphenyl (S)	%				81	75	43-114			
2-Fluorophenol (S)	%				34	30	4-79			
Nitrobenzene-d5 (S)	%				77	68	45-110			
p-Terphenyl-d14 (S)	%				85	80	27-144			
Phenol-d5 (S)	%				27	27	5-55			

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 315938

Analysis Method: SM22 3500-Cr B

QC Batch Method: SM22 3500-Cr B

Analysis Description: Chromium, Hexavalent by 3500

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147001

METHOD BLANK: 1608147

Matrix: Water

Associated Lab Samples: 70266147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	08/11/23 00:40	

LABORATORY CONTROL SAMPLE: 1608148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	98	85-115	

MATRIX SPIKE SAMPLE: 1608149

Parameter	Units	70265372022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	98	75-125	H3

SAMPLE DUPLICATE: 1608150

Parameter	Units	70265372022 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H3

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 316718

Analysis Method: SM22 4500-H+B

QC Batch Method: SM22 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147002

SAMPLE DUPLICATE: 1612298

Parameter	Units	70265582001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.5	7.6		0 H3,H6,N3
Temperature, Water (C)	deg C	7.2	7.6		5 H3,H6

SAMPLE DUPLICATE: 1612299

Parameter	Units	70266798004 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	7.0		1 H3,H6,N3
Temperature, Water (C)	deg C	6.5	6.5		0 H3,H6

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 316844

QC Batch Method: EPA 300.0

Analysis Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147001

METHOD BLANK: 1613045

Matrix: Water

Associated Lab Samples: 70266147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.10	0.10	08/18/23 22:43	

LABORATORY CONTROL SAMPLE: 1613046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1613048

Parameter	Units	70265613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	0.94	93	90-110	

MATRIX SPIKE SAMPLE: 1613050

Parameter	Units	70266798004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	0.89	87	90-110	M1

SAMPLE DUPLICATE: 1613049

Parameter	Units	70265613001 Result	Dup Result	RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		

SAMPLE DUPLICATE: 1613051

Parameter	Units	70266798004 Result	Dup Result	RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch:	610176	Analysis Method:	EPA 335.4
QC Batch Method:	EPA 335.4	Analysis Description:	335.4 Cyanide, Total
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 70266147002

METHOD BLANK: 2969629 Matrix: Water

Associated Lab Samples: 70266147002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.010	0.010	08/22/23 11:44	

METHOD BLANK: 2969631 Matrix: Water

Associated Lab Samples: 70266147002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.010	0.010	08/22/23 11:50	1j

LABORATORY CONTROL SAMPLE: 2969630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.2	0.21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2969632 2969633

Parameter	Units	30612666001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	mg/L	0.0069J	0.1	0.1	0.094	0.098	88	91	90-110	3	ML

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2969634 2969635

Parameter	Units	30613517006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.11	0.11	101	103	90-110	2	

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QUALITY CONTROL DATA

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

QC Batch: 316148

QC Batch Method: EPA 350.1

Analysis Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70266147001

METHOD BLANK: 1609366

Matrix: Water

Associated Lab Samples: 70266147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	08/13/23 13:15	

LABORATORY CONTROL SAMPLE: 1609367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.91	91	90-110	

MATRIX SPIKE SAMPLE: 1609368

Parameter	Units	70266163001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	17.4	10	27.8	105	90-110	

MATRIX SPIKE SAMPLE: 1609370

Parameter	Units	70266332006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	15.1	10	25.8	107	90-110	

SAMPLE DUPLICATE: 1609369

Parameter	Units	70266163001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	17.4	16.0	8	

SAMPLE DUPLICATE: 1609371

Parameter	Units	70266332006 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	15.1	14.2	7	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1j	pH was adjusted to >12 from unpreserved bottle at bench
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEMI ANNUAL 8/8

Pace Project No.: 70266147

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70266147002	EFFLUENT		315921		
70266147001	EFFLUENT	EPA 608.3	316402	EPA 608.3	316515
70266147001	EFFLUENT	EPA 608.3	316401	EPA 608.3	316511
70266147001	EFFLUENT	EPA 200.7	315737	EPA 200.7	315800
70266147002	EFFLUENT	EPA 625.1 SF	316106	EPA 625.1	316118
70266147002	EFFLUENT	EPA 624.1	315676		
70266147003	TRIP BLANK	EPA 624.1	315676		
70266147001	EFFLUENT	SM22 3500-Cr B	315938		
70266147002	EFFLUENT	SM22 4500-H+B	316718		
70266147001	EFFLUENT	EPA 300.0	316844		
70266147002	EFFLUENT	EPA 335.4	610176	EPA 335.4	610216
70266147001	EFFLUENT	EPA 350.1	316148		

REPORT OF LABORATORY ANALYSIS

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PACE Analytical Services, Inc.

Tap Water / Surface Water / Wastewater Field Log

Client: Ducommun Aerostructures

Sampler (print): Matt Broker

Project: Semi Annual

Signature: *[Signature]*

Date: 8/6/23

Location	Effluent	TIME SAMPLED	1135	PACE ID. NO.
Flow	N/A gallons	WEATHER CONDITION:	25°C cloudy	
TEMPERATURE	N/A C	APPEARANCE / OBSERVATIONS	slightly cloudy	
PH	6.94 STD. UNITS	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:	
SPEC. COND.	N/A uS	CHLORINE RES.	CHLORINE RES.	
TURBIDITY	N/A NTU	SULFIDE		
EH	N/A mV			
SULFITE	N/A MG/L			
DIS.OXYGEN	N/A MG/L			

Location		TIME SAMPLED		PACE ID. NO.
FLOW		WEATHER CONDITION:		
TEMPERATURE		APPEARANCE / OBSERVATIONS		
PH		IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:	
SPEC. COND.		CHLORINE RES.	CHLORINE RES.	
TURBIDITY		SULFIDE		
EH				
SULFITE				
DIS.OXYGEN				

Location		TIME SAMPLED		PACE ID. NO.
FLOW		WEATHER CONDITION:		
TEMPERATURE		APPEARANCE / OBSERVATIONS		
PH		IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:	
SPEC. COND.		CHLORINE RES.	CHLORINE RES.	
TURBIDITY		SULFIDE		
EH				
SULFITE				
DIS.OXYGEN				

Location		TIME SAMPLED		PACE ID. NO.
FLOW		WEATHER CONDITION:		
TEMPERATURE		APPEARANCE / OBSERVATIONS		
PH		IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:	
SPEC. COND.		CHLORINE RES.	CHLORINE RES.	
TURBIDITY		SULFIDE		
EH				
SULFITE				
DIS.OXYGEN				

Client: Ducommun Aerostructures

Profile #

Use Point Number Spreadsheet

WORK ORDER: 20m Annual 01/9

Semi Annual 8/9

[illegible]

Container Loads

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium
AG2U	500mL unpres amber

* Can also be a BP4N

SOC	
OG9T	40mL Na Thio amber
OG9A	40mL Ascorbic acid vials
OG9Y	Citrate/Na Thiosulfate
OG9T	Na Thiosulfate 60mL vial
AG3U	250mL unpres amber
AG3T	Na Thiosulfate 250mL
BBP1B	Na Thiosulfate Amber
AG1T	Na Thiosulfate 1L
AG1A	(NH4Cl)

SP5T	Misc.
R	120mL Coliform Na Thio
WGWZU	Terracote Kit
WGFU	2oz Unpreserved Jar
WGWZU	4oz Unpreserved Jar
WGWZU	8oz Unpreserved Jar
WGWZU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
GG1H	1L HCl Clear Glass
IGN	General
WP	Wing

	Glass	Plastic
WG9U	40mL unpres clear vial	BP4U 125mL unpres amber
VGSC	40mL Ascorbic-HCl	BP3U 250mL unpres amber
WGHV	40mL HCl clear vial	BP2U 500mL unpres amber
VG\$S	40mL Sulfuric clear vial	BP1U 1L unpreserved plastic
DG\$T	40mL Na Thiosulfate vial	BP4N 125mL HNO ₃ plastic
DG\$Y	40mL Citrate-Na	BP3N 250mL HNO ₃ plastic
DG\$P	40mL amber vial - TSP	BP2N 500mL H ₂ O ₂ plastic
DG\$A	40mL Maleic acid	BP3S 250mL H ₂ SO ₄ plastic
DG\$T	Na Thio 60mL Vial	BP2S 500mL H ₂ SO ₄ plastic
DG\$S	Ammonium Cl/CuSO ₄	BP3C NaOH 250mL bottle
CGHU	1L Unpres Jar (Con Ep)	BP3T 250mL Tizma
WG9O	8oz clear soil jar	BP3S 250mL Ammonium
WG4O	4oz clear soil jar	BP3R 250mL NH ₄ SO ₄ -
		BP1Z 1L NaOH, Zn Acetate
		BP1N 1L HNO ₃ plastic
		BP1B Na Thiosulfate Amber

Additional Comments

NO#: 70266147

Due Date: 08/23/23

PM: MN2

CLIENT: DUCO

Attachment 05

Garnet Waste Determination

	Form No.:	F-00663 Hazardous Waste Determination Worksheet -	
	Last Reviewed Date:	10/17/2023	Authorized By: WI-00216 Environmental Management System - Requirements
	Revision No.:	A	
	Coxsackie, New York		Page 1 of 2

DCO Site: Coxsackie **EPA ID:** NYR 000 219 550
171 Stacey Road
Coxsackie, NY 12051-2613

Date: 6/14/2024 **By:** Mary McCoy

Waste Stream Common Name: Spent Garnet

Check one: **RCRA Haz Waste** ☐ **Non-RCRA Haz Waste** ☐ **Not Haz Waste** ☒

RCRA Waste Codes: NA
State Waste Codes: NA

Source Code: #N/A
Form Code: #N/A

Management Method: #N/A

(For California sites, if this waste is subject to 22 CCR 66266.1 and is not recycled, attach justification.)

UN#, Proper Shipping Name, Hazard Class, Packing Group:

NA

ERG: NA **RQ Threshold:** NA

Check one: **Ongoing** ☒ **Intermittent** ☐ **One-time** ☐

Other information:

Spent garnet is not a RCRA hazardous waste. 2018 TCLP analytical results for chromium was below detection limits (see attached). Generator knowledge analysis of operations indicates that material is non-hazardous. The waterjet operations utilizes 200,000+ pounds of garnet every year. The non-hazardous portion of the waste streams is quite significant.

Waste generation process (listed, characteristic); chemicals used; location within facility:

Waterjet operations

November 29, 2018

Steve Czarnecki
Ducommun Aerostructures
171 Stacy Road
Coxsackie, NY 12051

RE: Project: CHROME 11/19
Pace Project No.: 7071555

Dear Steve Czarnecki:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Eugenia Lighthouse, Ducommun Incorporated



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHROME 11/19

Pace Project No.: 7071555

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHROME 11/19

Pace Project No.: 7071555

Sample: USED GARNET **Lab ID: 7071555001** Collected: 11/19/18 10:35 Received: 11/20/18 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 11/27/18 22:35								
Chromium	<0.50	mg/L	0.50	1	11/29/18 08:01	11/29/18 13:44	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHROME 11/19

Pace Project No.: 7071555

QC Batch: 92948

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 7071555001

METHOD BLANK: 429089

Matrix: Water

Associated Lab Samples: 7071555001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/L	<0.50	0.50	11/29/18 13:42	

LABORATORY CONTROL SAMPLE: 429090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	.25	<0.50	85	80-120	

MATRIX SPIKE SAMPLE: 429092

Parameter	Units	7071555001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	<0.50	.25	<0.50	90	75-125	

SAMPLE DUPLICATE: 429091

Parameter	Units	7071555001 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	<0.50	<0.50		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CHROME 11/19

Pace Project No.: 7071555

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHROME 11/19

Pace Project No.: 7071555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7071555001	USED GARNET	EPA 3005A	92948	EPA 6010C	92950

REPORT OF LABORATORY ANALYSIS

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[illegible]

Attachment 06

Facility Follow up Email to EPA

McCoy, Mary

From: McCoy, Mary
Sent: Tuesday, June 18, 2024 12:37 PM
To: Vince Damiano
Cc: Dumaua, Pedro; Gutierrez, Jennette; Hasenkopf, Robert
Subject: RE: Follow-up From EPA Visit on 6/12
Attachments: Manifest Bonderite.JPG; Profiles Lab Results.zip; ER services Corres.zip; Manifests TSDF copies.zip; POTW corres - no permit.pdf; Debris pictures.zip; F-00713 Daily Waste Shed Inspection Form - EMS Rev A.xlsx

Hi Vince,

Here are the documents that I owe you:

- Contingency plan – this is huge, so I will overnight a thumb drive to you. Although I’m willing to try, it will be likely because of security that I won’t be able to upload to an FTP site. Is your address 14555 Avion Pkwy #200, Chantilly, VA 20151?
- Correspondence regarding emergency services to visit facility and become familiar with layout
 - See “ER services Corres.zip”
- Signed manifests with the following manifest numbers:
 - 002353387 VES
 - 002353236 VES
 - 002353002 VES
 - 002236882 VES
 - 002236763 VES
 - 001914991 VES
 - See Manifests for TSDF copies
- Correspondence from POTW stating you do not qualify for a disposal permit
 - See POTW corres – no permit.pdf
- Waste determination
 - Waste determination on spent garnet from water jets
 - Waste determination on material accumulating in UST
 - Waste determination (2023 results) on water being sent to POTW
 - See “Profiles Lab Results.zip”

Follow up to your comments while you were here onsite:

- The 5-gallon container of hazardous waste with the accumulation date of September 2023 was shipped offsite on today, 6/18/24. It was placed in an area normally obscured by a 300-gallon intermediate bulk container, which is why the 5-gallon container was not seen during weekly inspections. We have created a small container area in the LT-90 to prevent this in the future. See Manifest Bonderite.
- To address the open and undated containers, we started daily inspections of the LT-90 to make following up on deficiencies easier and more timely. See attached inspection form. This form is not the same as the weekly inspection form, which is more comprehensive.
- The acetone debris and paint containers are now labeled and closed. See attached photographs.
- Regarding the expired paint in the cabinet, although expired paint cannot be used in production, which is why they’re segregated, they still can be used on occasion for training, troubleshooting, etc.; hence, paint in that cabinet is not a waste.
- I don’t see where containers of universal waste aerosol cans must be closed. See the attached fact sheet, which can be found here: <https://dec.ny.gov/environmental-protection/waste-management/hazardous-waste/universal-waste>

- The adhesive/sealant waste that did not have an accumulation date was not a RCRA hazardous waste – see attached waste determination. That material was pending determination, and the lab issued the final report on June 12, 2024.

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: McCoy, Mary
Sent: Friday, June 14, 2024 11:07 AM
To: Vince Damiano <Vince.Damiano@erg.com>
Subject: RE: Follow-up From EPA Visit on 6/12

Hi Vince,

It was nice to meet you.

I'll have something for you shortly.

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: Vince Damiano <Vince.Damiano@erg.com>
Sent: Wednesday, June 12, 2024 3:58 PM
To: McCoy, Mary <MMcCoy@ducommun.com>; Howe, Millage <MHowe@ducommun.com>; sshelhammer@ducommun.com; Hasenkopf, Robert <RHasenkopf@ducommun.com>
Subject: Follow-up From EPA Visit on 6/12

This Message Is From an External Sender

This message came from outside your organization.

Hello All,

I am following up with a list of items requested from our inspection today.

- Contingency plan
- Correspondence regarding emergency services to visit facility and become familiar with layout
- Signed manifests with the following manifest numbers:
 - 002353387 VES
 - 002353236 VES
 - 002353002 VES
 - 002236882 VES
 - 002236763 VES
 - 001914991 VES

- Correspondence from POTW stating you do not qualify for a disposal permit
- Waste determination on spent garnet from water jets
- Waste determination on material accumulating in UST
- Waste determination (2023 results) on water being sent to POTW

Again, thank you for taking the time out of your day to meet with me. Please let me know if you have any questions or concerns. Any follow-up can be sent to myself or uploaded to the secure FTP site which I will share with you shortly.

Thanks,
Vince



Vince Damiano

Chemical Engineer, Chantilly Office

Cell: (570) 956-1468

Vince.Damiano@erg.com

Attachment 07

Facility Follow-up Photographs

177-BLC-1 5 4024584 (Rev. 2/20)

Published by J. J. Keller & Associates, Inc. • Menasha, WI • JJKeller.com • (800) 327-4868 • Printed in the USA

VEOLIA

VEOLIA

9613727

Form Approved. OMB No. 2050-0039

4. Manifest Tracking Number
002356568 VES

1. Generator ID Number
NYR000219550

2. Page 1 of 1

3. Emergency Response Phone
(877) 818-0087

Generator's Site Address (if different than mailing address)
SAME

5. Generator's Name and Mailing Address
**DUCOMMUN AEROSTRUCTURES, INC.
171 STACEY RD
COXSACKIE, NY 12051-2613**

Generator's Phone:
518 731-4650

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS

7. Transporter 2 Company Name
FREEHOLD CARTAGE INC

8. Designated Facility Name and Site Address
**STABLEX CANADA
760 BLVD. INDUSTRIEL
BLAINVILLE, PQ, QC J7C 3V4**

Facility's Phone:
450 430-9230

9a. HM

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

13. Waste Codes

No.	Type	Quantity	Unit	Waste Codes
1	D F	40	P	D002 T
2	T P	2200	P	D002 T
3				
4				

14. Special Handling Instructions and Additional Information
ER Service Contracted by VESTS - Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. Primary Exporter: Veolia ES Technical Solutions, LLC. Exporting per AOC 035851/08E/23, expires 09/11/2024. + 1) ERG:154 W:173586 A:STB021654 2) ERG:154 W:992559 A:STB021654

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's Signature
MARY A MCCOY

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Matthew Mokritski

Transporter 2 Printed/Typed Name

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator)

Facility's Phone: Month Day Year

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Shipping manifest for 5-gallon container of hazardous waste with the accumulation date of September 2023 was shipped off site 6/18/24



Acetone debris tote closed and dated as of 6/18/2024



Paint debris tote closed and dated as of 6/18/2024

Attachment 08

RCRA Contingency Plan

WI-00237 RCRA Contingency Plan

Ducommun AeroStructures New York
Coxsackie, NY

1	Appendix 7.1 – Emergency Contact Information (F-00639)
2	Appendix 2.1 – Immediate Emergency Procedures
3	RCRA Contingency Plan
4	Appendix 3.c)i) - High Hazard Chemical Incidental Spill Response Procedure (WI-00241)
5	Appendix 2-4)b)iii) - Start of Fire Pump (WI-00250)
6	Appendix 2.4 - Utility Shutoffs (WI-00240)
7	Appendix 3.1 - Emergency Equipment (F-00637)
8	Appendix 4.1.5.1 - Chemical Line Tank Concentrations
9	Appendix 7.3 – Supporting Personnel
10	Appendix 2-1)a) - Shelter In Place (Tornado) (WI-00242)
11	Appendix 2-1)b) - Medical Emergency (WI-00251)
12	Appendix 9.4.4.2 - Agreement with Veolia
13	Appendix 4.2 - Safety Data Sheets
14	
15	

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 2/1/2024	Revision No.: D	Page: 31 of 33

Title Page

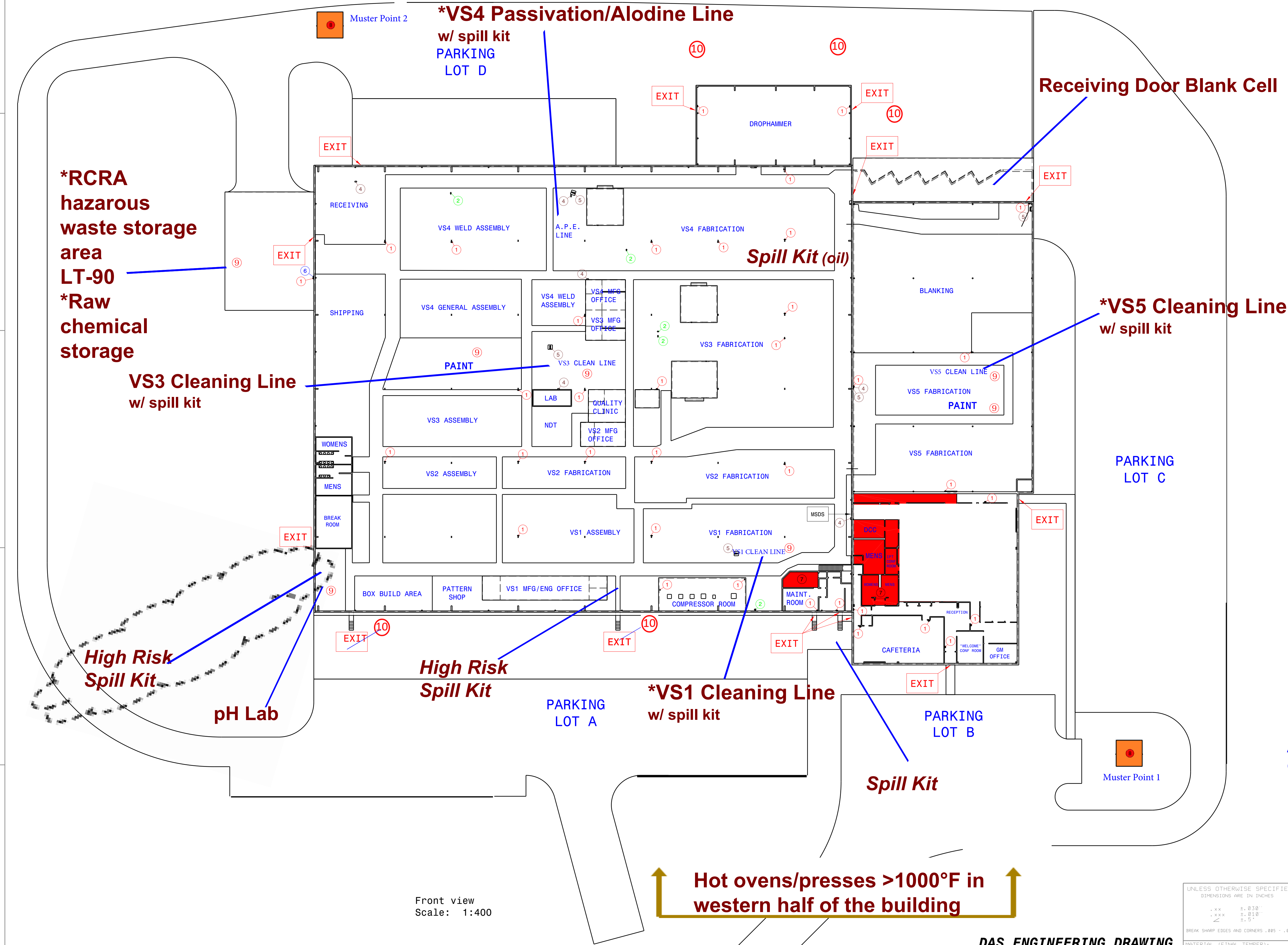
RCRA Contingency Plan

*Ducommun AeroStructures New York
Coxsackie, NY*

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 2/1/24	Revision No.: D	Page: 12 of 33

Map – 2' x 3' to be posted at the front of the plan

This drawing has been generated from	
Customer	N/A
Bug Number	N/A
Revision	N/A
Sheet	N/A
Media	171 STACY ROAD-SAFETY.CATProduct

[illegible]

KEY	
1	FIRE EXTINGUISHER, ABC
2	FIRE EXTINGUISHER, CLASS D
3	AED
4	FIRST AID
5	EYE WASH STATION
6	EMERGENCY PHONE
7	SHELTER IN PLACE AREA
8	EMERGENCY EVACUATION AREA
9	CHEMICAL STORAGE AREAS
10	Catch Basins



F-00646 Site Safety Map - EMS
Authorized by: WI-00237 RCRA
Contingency Plan - EMS
Last Reviewed Date: 10/24/23
Rev A

DO NOT SCALE DRAWING

 AeroStructures-New York		PROPRIETARY INFORMATION THIS DOCUMENT IS THE PROPERTY OF BLOOMER AEROSTRUCTURES, AND IS LOANED IN CONFIDENCE UNDER THE AGREEMENT THAT IT IS TO BE RETURNED UPON REQUEST AND IS NOT TO BE REPRODUCED, COPIED OR OTHERWISE DISCLOSED OR WITHDRAWN FROM CONSENT, AND IS NOT TO BE USED IN WHOLE OR IN PART WITHOUT OUR CONSENT FOR THE MAKING OF OTHER DRAWINGS, OR REVISED REVISIONS, AND THESE CONDITIONS ARE AGREED TO BY THE ACCEPTANCE OF THIS DRAWING.			
		TITLE HEALTH AND SAFETY 171 STACY ROAD			
DRAWN BY R Patton	SIZE D BAS FILE NAME 171 STACY ROAD-SAFETY MAP REV-C	CHECK XXXXXXXXXX	DO NOT SCALE	DRAWN ON DATE 10/04/2016	SHEET 1 OF 1
ENG XXXXXXXXXX		UCH XXXXXXXXXX			
LBY XXXXXXXXXX		B.C.C. XXXXXXXXXX			
B.C.C. XXXXXXXXXX					

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

. x x	± .030"
. x x x	± .010"
∠	± .5°

BREAK SHARP EDGES AND CORNERS .005 - .015

MATERIAL (FINAL TEMPER):
XX-XX-XXX

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Appendix 7.1 – *Emergency Contact Information (F-00639)* – to be posted at the front of the plan

		Form No.: F-00639 Emergency Response Contact Information	
		Authorized by: WI-006216 RCRA Contingency Plan	
Coxsackie, New York	Last Reviewed Date: 3/25/24	Revision No.: B	Page: 1 of 3

UNIVERSAL EMERGENCY NUMBER			
<u>Facility Phone:</u> 9911		<u>Cell Phone:</u> 911	
EMERGENCY COORDINATORS			MAINTENANCE LEAD
<u>Primary</u> Mary McCoy CELL: (203) 300-7303 Alt cell: (860) 578-4008 Alt cell: (979) 221-8885	<u>First Alternate</u> Millage Howe CELL: (518) 764-8278	<u>Second Alternate</u> Paul Bradt CELL: (518) 944-7956	Sunder Shelhamer CELL: (518) 935-7023
	<u>Third Alternate</u> George Johnson CELL: (848) 888-2291	<u>Fourth Alternate</u> Rob Moore CELL: (518) 755-0227	
EMERGENCY RESPONSE ORGANIZATIONS (NON-EMERGENCY NUMBERS – CALL 911 FOR EMERGENCIES)			
<u>Primary Fire Department & Spill</u> Village of Coxsackie Fire Department Fire Chief-Shawn Burdick firechief@villageofcoxsackie.com (518) 242-0032	<u>Fire Department</u> Earlton Fire House 1561 New York 81 Earlton, NY 12058 (518) 731-6683	<u>Ambulance</u> Town of Coxsackie Ambulance Nadine Erceg-Myrdycz, Chief of EMS (518) 731-3687 emschief@coxsackie.org	<u>Hospital</u> Columbia Memorial Hospital 71 Prospect Ave Hudson, NY 12534 (518) 828-7601
<u>Law Enforcement</u> New York State Police Troop F Zone 1 Coxsackie Station c/o SP Catskill South Cairo, NY 12482 (518) 731-2333	<u>Law Enforcement</u> Greene County Sheriffs Office 45 Haverly Mem Dr Coxsackie, NY 12051 (518) 943-3300	<u>Urgent Care</u> EmUrgentCare 11835 State Rt. 9W West Coxsackie, NY 12192 (518) 731-9000	<u>Hospital</u> St. Peter’s Hospital 315 South Manning Blvd., Albany, NY 518-525-1550
<u>Poison Control</u> 800-222-1222	<u>Spill</u> Veolia 9+1-800-354-2382 Dial “1”		

		Form No.: F-00639 Emergency Response Contact Information	
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OTHER ORGANIZATIONS								
NYDEC Spill Hotline 800-457-7362			National Response Center (use their 24-hour toll free number 9+800-424-8802)		OSHA – (800) 321-6742		Natural Gas Central Hudson Gas & Electric 800-942-8274	
Central Hudson (For electrical and outages) (845) 452-2700								
FIRST AID RESPONDERS - USE THE PA SYSTEM – “CODE 3 [VALUE STREAM AND AREA]”								
Name	Phone	Shift	Name	Phone	Shift	Name	Phone	Shift
Mary McCoy	4650	1	Curt Abretske	Page	2	Jessica Sturner	Page	3
Philip Moritz	Page	1	George Johnson	Page	2	Charlie Buccino	Page	3
Maximus Kelly	Page	1	Lindsay Wexler	Page	2	Robert Moore	Page	3
Joseph McGiffert	Page	1	Josh Benoit	Page	2			
Orland Perkins	Page	1	Travis Knott	Page	2			
DUCOMMUN HAZMAT TEAM - USE THE PA SYSTEM – “HAZMAT [VALUE STREAM AND AREA]”								
Name	Phone	Shift	Name	Phone	Shift	Name	Phone	Shift
Mike Hogan	Page	1	George Johnson	Page	2	Jessica Sturner	Page	3
Kris Hogan	Page	1	Curt Abretske	Page	2	Charlie Buccino	Page	3
Mike Czyzewski	Page	1	Travis Knott	Page	2			
Mary McCoy	4650	1						

PRINTING NOTICE - Individuals are responsible for ensuring that they are using the governing version.

		Form No.: F-00639 Emergency Response Contact Information	
		Authorized by: WI-006216 RCRA Contingency Plan	
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Posting for RCRA hazardous waste storage area phone

IN CASE OF AN EMERGENCY, 9911 AND notify the following personnel:

EMERGENCY COORDINATORS			MAINTENANCE LEAD
<u>Primary</u> Mary McCoy CELL: (203) 300-7303 Alt cell: (860) 578-4008 Alt cell: (979) 221-8885	<u>First Alternate</u> Millage Howe CELL: (518) 764-8278	<u>Second Alternate</u> Paul Bradt CELL: (518) 944-7956	Sunder Shelhamer CELL: (518) 935-7023
	<u>Third Alternate</u> George Johnson CELL: (848) 888-2291	<u>Fourth Alternate</u> Rob Moore CELL: (518) 755-0227	

OUTSIDE EMERGENCY PERSONNEL TO BE NOTIFIED, IF REQUIRED:

[Coxsackie] Police Department	9+911
[State] Police Information Desk	9+(518)-622-8600
[Coxsackie] Fire Department	9+(518) 731-6510

For a spill inside the facility, the Emergency Coordinator or designee should call Veolia 9+1-800-354-2382 Dial "1".

If the Person-in-Charge determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside the facility, they must:

- 1. If the assessment indicates that evacuation of local areas may be advisable, immediately notify appropriate local authorities (9+911).**
- 2. Notify:**
 - 2.1 Veolia 9+1-800-354-2382 Dial "1"**
 - 2.2 NYSDEC 9+ 1-800-457-7362**
 - 2.3 National Response Center (use their 24-hour toll free number 9+800-424-8802).**

The reports made for these incidents shall include the following:

Your name and telephone number

Name and address of the facility:

Time and type of incident (for example, release, fire);

Name and quantity of material(s) involved, to the extent known:

The extent of injuries, if any; and

The possible hazards to human health, or the environment, outside the facility.

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Appendix 2.1 – *Immediate Emergency Procedures* - to be posted at the front of the plan

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- 1) For Shelter in Place (tornado) or Medical Emergency, go to Appendices 2-1)a) and 2-1)b)

In the event of a fire, explosion or spill at the facility, personnel will execute the following steps:

- 2) Discovering personnel will:
 - a) Tell a supervisor or manager immediately
 - b) If they deem the situation dangerous enough, personnel are empowered to:
 - i) Initiate evacuation of the facility. See Section 4)e) of this section.
 - ii) Call 9-911
- 3) All team leads, supervisors, managers and emergency coordinators¹ must:
 - a) Assess emergency situations
 - b) If there is sufficient immediate threat to human health and the environment
 - i) Initiate evacuation of the facility. See Section 4)e) of this section.
 - ii) Call 9-911
 - c) Immediately notify the emergency coordinator or designee who will implement the Contingency Plan in the following situations:
 - i) Any spill of the materials listed in Section 4)c)i) of this section
 - ii) A fire that cannot be extinguished with one extinguisher
 - iii) Any explosion
 - iv) Any other situation involving a RCRA hazard waste that poses a threat to human health or the environment
- 4) The Emergency Coordinator or designee will:
 - a) Injuries
 - i) Summon trained personnel to render first aid
 - ii) Call 9-911 and summon EMS for more severe injuries
 - b) Explosions and fires that cannot be extinguished with one attempt:
 - i) Initiate evacuation. See Section e) of this section
 - ii) Summon the fire department
 - iii) **Verify that Maintenance personnel will start the operation of the fire pump. The instructions on how to turn on the Fire Pump is posted at the Fire Pump House. See Appendix 2-4)b)iii)**

¹ See Section 7 of the main body of the Contingency Plan on page 6

iv) Inform the fire department that:

- (1) There are ovens and presses at temperatures greater than 1000°F in the western half of the building**
- (2) A water reactive material, Molten Salt Bath also known as “Caustic” and “ALKO-N”, which is a potassium-based material, is located in the chemical lines at VS 1, 3 and 5.**
- (3) There are chemical and waste storage sheds on the east side of the building by the back gate**
- (4) There are drums of flammable liquids [acetone (99% - 100%), IPA (99%), and waste paint] in the Paint areas, next to VS4 Passivation/Alodine Line, and near Receiving Door #5 at Blank Cell.**

c) Spills

i) If more than 2.5 gallons of these material has spilled, contact the Fire Department via 911. For less than 2.5 gallons, use WI-00241 High Hazard Chemical Incidental Spill Response Procedure. Only personnel who are hazmat trained are authorized to clean up the following material. See Appendix 4)c)i).

- (1) Hydrofluoric acid
- (2) Nitric acid
- (3) Nitric-hydrofluoric acid mix
- (4) Sulfuric acid
- (5) Sodium hydroxide (pH Lab “caustic”)
- (6) Bonderite/Alodine raw material

d) For other spills, if safe to do so:

- i) Stop the spill at the source
- ii) Contain the spill by laying down booms and pads
- iii) Clean up spills with sorbents and pads
- iv) Label waste containers

e) Evacuation

- i) Evacuation is initiated by pulling a fire alarm, which are located by each pedestrian door exit
- ii) The primary rally locations are as follows:
 - (1) Muster Point 1: the grassy area at the north corner of the facility property at the end of Parking Lot C closest to the front gate.
 - (2) Muster Point 2: the east end of Parking Lot D near the gate
- iii) The EC or designee will instruct personnel to stay out of the way of emergency response vehicles.

- iv) If the wind is blowing smoke towards a muster point or other unfavorable condition, the EC or designee will instruct personnel to report to an upwind muster point.
- v) The EC or designee will direct two personnel to stand at each gate to direct emergency vehicles and incoming personnel if the event happens during a shift change
- vi) The team leads or EC designee will take a head count and report to the EC and the fire department if there are any personnel missing
- vii) Personnel will remain at the rally points until dismissed by the EC or designee, manager or team lead
- viii) Cold weather evacuation:
 - (1) Personnel will be advised to maintain extra clothing in their cars during cold weather months in the event of evacuation
 - (2) When evacuation is initiated, personnel are to report to and remain at their muster point until they are cleared by the EC or designee to go to their cars to retrieve the extra clothing
 - (3) Team leads and managers should allow personnel to proceed to their cars two at a time or in some other orderly fashion
- f) Supporting Personnel and Duties
 - (1) Dispatch supporting personnel to execute their duties listed in Appendix 7.3. See Section 7.3 of the Contingency Plan for more information.

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Title Page

RCRA Contingency Plan

*Ducommun AeroStructures New York
Coxsackie, NY*

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
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1. Introduction

- 1.1. Because the facility is a Large Quantity Generator (LQG) of RCRA hazardous waste, Ducommun AeroStructures New York, Inc. (DASNY) located at 171 Stacey Road, Coxsackie, New York, is subject to Title 6 New York Codes, Rules and Regulations §373-3.3 [preparedness and prevention] and §373-3.4 [contingency plans and emergency procedures].
- 1.2. This Contingency Plan (plan) is designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.
- 1.3. This plan describes the actions facility personnel will take to comply with 6 CRR NY §373-3.3 and §373-3.4 in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility.
- 1.4. This plan also incorporates actions for emergencies not related to hazardous waste that include fires, spills, explosions and excludes shelter in place emergencies such as a tornado as well as responses to medical emergencies other than summoning emergency response services.
- 1.5. DASNY personnel will immediately implement the provisions of this plan whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment or a Shelter In Place or Medical Event. See Appendix 2.1.

2. Emergency Procedures

- 2.1. The immediate emergency procedures, which will be executed by the Emergency Coordinator or Emergency Coordinator Designee during the off shift, are located in Appendix 2.1, Immediate Emergency Procedures, which will be posted in the front of the plan for ease of reference.
- 2.2. The Emergency Coordinator will also:
 - 2.2.1. Notify other appropriate State or local agencies with designated response roles if their help is needed.
 - 2.2.2. Whenever there is a release, fire, or explosion, immediately identify the character, exact source, amount, and areal extent of any released materials. They may do this by observation or review of facility records or manifests and, if necessary, by chemical analysis.
 - 2.2.3. Concurrently, assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-offs from water or chemical agents used to control fire and heat-induced explosions).
 - 2.2.3.1. If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside the facility, they must report their findings as follows:

2.2.3.1.1. If their assessment indicates that evacuation of local areas may be advisable, they must immediately notify appropriate local authorities. They must be available to help appropriate officials decide whether local areas should be evacuated; and

2.2.3.1.2. They must immediately notify either the government official designated as the on-scene coordinator for that geographical area, or the National Response Center (using their 24-hour toll free number 800/424-8802). The report must include:

2.2.3.1.2.1. Name and telephone number of reporter;

2.2.3.1.2.2. Name and address of facility;

2.2.3.1.2.3. Time and type of incident (e.g., release, fire);

2.2.3.1.2.4. Name and quantity of material(s) involved, to the extent known;

2.2.3.1.2.5. The extent of injuries, if any; and

2.2.3.1.2.6. The possible hazards to human health, or the environment, outside the facility.

2.2.4. During an emergency, take all reasonable measures **when it is safe to do so** necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.

2.2.5. If the facility stops operations in response to a fire, explosion or release, must monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate and **safe to do so**.

2.3. Evacuation

2.3.1. See Section 4)e) of Appendix 2.1

2.4. Utility Shutoffs

2.4.1. WI-00240 provides the instructions on the Utility Shutoffs, which is included in Appendix 2.4 of this plan.

2.5. Reportable Spills

2.5.1. The Emergency Coordinator or a supporting Emergency Coordinator must implement the reporting requirements of this section as soon as an emergency is stabilized.

2.5.2. Reportable spills include:

2.5.2.1. The following materials spilled or leaked into the environment in the quantities listed below or greater that cannot be recovered (cleaned up):

NAME	CAS/313 Category Codes	Reportable Quantity	
		Air	Land/water
Acetone	67-64-1	5000	1
Sodium hydroxide	1310-73-2	1000	100

Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100
Sulfuric acid	7664-93-9	1000	100
Nitric acid	7697-37-2	1000	100
Chromic acid	7738-94-5	10	10

2.5.2.2. The National Response Center (NRC) (800-424-8802) within 15 minutes and the NYS Spill Hotline (1-800-457-7362) within 2 hours of discovery must be contacted in the event of a reportable spill listed above.

2.5.2.3. Petroleum:

2.5.2.3.1. EPA/National Response Center

2.5.2.3.1.1. EPA has established requirements to report spills to navigable waters or adjoining shorelines. EPA has determined that discharges of oil in quantities that may be harmful to public health or the environment must be reported to the Natural Response Center (800-424-8802) within 15 minutes and include those that:

2.5.2.3.1.2. Violate applicable water quality standards;

2.5.2.3.1.3. Cause a film or "sheen" upon, or discoloration of the surface of the water or adjoining shorelines; or

2.5.2.3.1.4. Cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines.

2.5.2.3.2. All petroleum spills that occur within New York State (NYS) must be reported to the NYS Spill Hotline (1-800-457-7362) within 2 hours of discovery, except spills which meet all of the following criteria:

2.5.2.3.2.1. The quantity is known to be less than 5 gallons; and

2.5.2.3.2.2. The spill is contained and under the control of the spiller; and

2.5.2.3.2.3. The spill has not and will not reach the State's water or any land; and

2.5.2.3.2.4. The spill is cleaned up within 2 hours of discovery.

2.5.2.3.2.5. A spill is considered to have not impacted land if it occurs on a paved surface such as asphalt or concrete. A spill in a dirt or gravel parking lot is considered to have impacted land and is reportable.

3. Emergency Equipment

3.1. Form F-00637 Emergency Equipment List – EMS, which is included in Appendix 3.1 provides a list of all emergency equipment related to hazardous waste at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required. This list will be kept up to date. This

list also includes the location and a physical description of each item on the list, and a brief outline of its capabilities.

- 3.2. A bin located at the Pump House that contains emergency equipment such as radios, flashlights with wands, a copy of the Contingency Plan, and safety data sheets of high-risk chemicals are located inside the Pump House.

4. Chemicals

- 4.1. Chemicals onsite include but is not limited to:

4.1.1. Raw chemical storage sheds:

4.1.1.1. Hydrofluoric acid

4.1.1.2. Nitric acid

4.1.1.3. Acetone (99% - 100%)

4.1.2. Receiving Door #5 at Blank Cell

4.1.2.1. Acetone (99% - 100%)

4.1.2.2. Isopropyl Alcohol (99%)

4.1.3. Hazardous waste storage shed:

4.1.3.1. Spent nitric-hydrofluoric acid mix

4.1.3.2. Spent Bonderite solution

4.1.3.3. Spent Alodine solution

4.1.4. pH Lab

4.1.4.1. Sulfuric acid

4.1.4.2. Sodium hydroxide

4.1.5. Chemical lines.

4.1.5.1. Chemical line chemicals and their concentrations in the tanks are listed in Appendix 4.1.5.1.

- 4.2. Safety data sheets for the chemicals listed in this section are included in Appendix 4.2.

- 4.3. The facility contains other chemicals including 55-gallon drums of acetone and waste paint.

5. Site Safety Map

F-00646 provides the Site Safety Map, which will be posted in the front of the plan (two copies), which shows the location of:

- 5.1. Chemical storage areas

- 5.2. Evacuation points

5.3. Other information including:

- 5.3.1. Fire extinguishers
- 5.3.2. AEDs
- 5.3.3. First aid
- 5.3.4. Eye wash stations
- 5.3.5. Emergency phone
- 5.3.6. Shelter-in-place
- 5.3.7. General location of hot ovens and presses

6. Post Emergency Actions

- 6.1. Immediately after an emergency, the emergency coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility.
- 6.2. The emergency coordinator must ensure that, in the affected area(s) of the facility:
 - 6.2.1. No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed; and
 - 6.2.2. All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.
 - 6.2.3. The owner or operator must note in the operating record the time, date, and details of any incident that requires implementing the contingency plan.
 - 6.2.4. Within 15 days after the incident, he must submit a written report on the incident to the Regional Administrator if the Contingency Plan is invoked for an incident related to RCRA hazardous waste. The report must include:
 - 6.2.4.1. Name, address, and telephone number of the owner or operator;
 - 6.2.4.2. Name, address, and telephone number of the facility;
 - 6.2.4.3. Date, time, and type of incident (e.g., fire, explosion);
 - 6.2.4.4. Name and quantity of material(s) involved;
 - 6.2.4.5. The extent of injuries, if any;
 - 6.2.4.6. An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
 - 6.2.4.7. Estimated quantity and disposition of recovered material that resulted from the incident.

7. Responsibilities

- 7.1. Emergency contact information is included on F-00639 Emergency Response Contact Information, which is included in Appendix 7.1, which will be posted in the front of the plan.
- 7.2. Emergency Coordinator

7.2.1. At all times, there must be at least one employee either on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures. This emergency coordinator must be thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of wastes and chemicals handled, the location of all records within the facility, and the facility layout. In addition, this person must have the authority to commit the resources needed to carry out the contingency plan.

7.2.2. In the absence of the primary Emergency Coordinator, Emergency Coordinator duties will 'roll' down to the alternates in the order they are presented in the Emergency Contact Information.

7.2.2.1. When contacting the Emergency Coordinators, personnel will start with the primary and continue down the list in order until an Emergency Coordinator responds

7.2.3. During the off shift, the onsite manager, team lead or other identified designee will serve as the Emergency Coordinator Designee until the Emergency Coordinator arrives. The Emergency Coordinator Designee must be familiar with the Appendix 2.1, Immediate Emergency Procedures.

7.3. Supporting Personnel

7.3.1. The Assistant Emergency Coordinator for the off shift (second shift [non-business hours], third shift and weekends) will be identified in advance. The role of the Assistant Emergency Coordinator is to provide direction to the other supporting personnel in an actual event or drill.

7.3.2. The list of other supporting personnel are listed in Appendix 7.3. These personnel should exclude first aid and spill responders.

7.3.3. Training is discussed in Section 11.

8. Copies of contingency plan.

8.1. A copy of the Contingency Plan and all revisions to the plan must be:

8.1.1. Maintained at the facility:

8.1.1.1. In Compliant Pro

8.1.1.2. In the bin at the Pump House

8.1.1.3. In the drawer of the table near the Receptionist restrooms

8.1.1.4. With the listed Emergency Coordinators

8.1.2. Submitted to all local police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services.

9. Arrangements with Authorities

9.1. This section describes the arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services.

9.2. See Section 8 for distribution of the Contingency Plan

9.3. Emergency contact information is included on F-00639 Emergency Response Contact Information, which is included in Appendix 7.1.

9.4. Agencies and Organizations

9.4.1. The responding Fire Departments are as follows:

9.4.1.1. Village of Coxsackie Fire Department (primary for spills, fires and explosions)

9.4.1.1.1. Coxsackie Hose Company #3
P.O. Box 303
Coxsackie, NY 12051

9.4.1.1.2. Email address: firechief@villageofcoxsackie.com

9.4.1.1.3. Once a year, DASNY invites Village of Coxsackie Fire Department for a tour of the facility to allow them to become acquainted with the facility operations and layout

9.4.1.2. Earlton Fire House

9.4.1.2.1. 1561 New York 81
Earlton, NY 12058

9.4.2. Ambulance

9.4.2.1. Coxsackie Ambulance is the primary responding agency for injury response.

9.4.2.2. Mailing Address:

56 Bailey St
Town of Coxsackie, NY 12051

9.4.2.3. Physical address:

117 Mansion Street
Coxsackie, NY 12051

9.4.2.4. Email address: emschief@coxsackie.org

9.4.2.5. Non-emergency phone number: (518) 731-EMTS (731-3687)

9.4.3. Law Enforcement

9.4.3.1. The local law enforcement agencies are:

9.4.3.1.1. New York State Police
Troop F
Zone 1
South Cairo, NY 12482

9.4.3.1.2. Greene County Sheriffs Office

45 Haverly Mem Dr
Coxsackie, NY 12051

9.4.3.1.3. Greene County Sheriffs Office
119 Mansion Street
Coxsackie N.Y. 12051

Email address: sheriff@greenesheriffny.com

9.4.4. Local Emergency Planning Commission (LEPC)/State Emergency Response Commission (SERC)

9.4.4.1.1. Greene County Emergency Operations
(LEPC)
25 Volunteer Dr
Cairo, NY 12413

9.4.4.1.2. NYS Emergency Management Office
1220 Washington Ave,
Building 22, Suite 101
Albany, NY 12226

Email address: SERC.OEM@dhses.ny.gov

9.4.5. Veolia

9.4.5.1. The third party contractor for spill response is Veolia; however, DASNY will contact the Village of Coxsackie Fire Department first

9.4.5.2. The facility maintains a contract with Veolia for spill response services, which is included in Appendix 9.4.4.2 of this plan.

9.4.6. Hospital

9.4.6.1. The hospitals to which the Contingency Plan will be sent include:

9.4.6.1.1. Columbia Memorial Hospital
71 Prospect Ave
Hudson, NY 12534

9.4.6.1.2. St. Peter's Hospital
315 South Manning Blvd.,
Albany, NY 12208

9.4.7. Urgent Care

9.4.7.1. The UrgentCare to which the Contingency Plan will be sent:

9.4.7.1.1. EmUrgentCare
11835 State Rt. 9W

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West Coxsackie, NY 12192

10. Amendment of the Contingency Plan

- 10.1. The contingency plan must be reviewed, and immediately amended, if necessary, whenever:
 - 10.1.1. Applicable regulations are revised;
 - 10.1.2. The plan fails in an emergency;
 - 10.1.3. The facility changes—in its design, construction, operation, maintenance, or other circumstances—in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
 - 10.1.4. The list of emergency coordinators changes; or
 - 10.1.5. The list of emergency equipment changes.

11. Training

- 11.1. Personnel will be trained annually as follows:
 - 11.1.1. Emergency Coordinators
 - 11.1.1.1. On the entirety of the plan and their duties outlined therein
 - 11.1.2. Emergency Coordinators Designees
 - 11.1.2.1. The Emergency Coordinator Designee must be familiar with:
 - 11.1.2.1.1. The Immediate Emergency Procedures in Appendix 2.1
 - 11.1.3. Team leads:
 - 11.1.3.1. The Immediate Emergency Procedures in Appendix 2.1
 - 11.1.3.2. Their duty to identify supporting personnel during the off-shifts
 - 11.1.4. Supporting personnel
 - 11.1.4.1. The Assistant Emergency Coordinator - Instructions to provide to other Supporting Personnel
 - 11.1.4.2. Department heads – their department duties during first shift
 - 11.1.5. All employees
 - 11.1.5.1. Evacuation plan
 - 11.1.5.2. To contact the Emergency Coordinators if they have questions about the Contingency Plan
 - 11.1.5.3. Shelter in Place (Tornado) Plan
 - 11.1.6. First Aid Responders - first aid

[Blank – Reserved]

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Appendix 3.c)i) - *WI-00241 High Hazard Chemical Incidental Spill Response Procedure*

 Ducommun		Work Instruction: WI-00241 High Hazard Chemical Incidental Spill Response Procedure	
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PURPOSE (OBJECTIVE)/SCOPE

Provide instructions on responding to releases outside of primary containment for the following materials:

- Hydrofluoric acid
- Nitric acid
- Nitric hydrofluoric
- Bonderite/Alodine
- Sulfuric acid
- pH lab caustic (sodium hydroxide)
- Alko-N if wet or in solution
- Oakite 61b if wet or in solution

Consult WI-00237 RCRA Contingency Plan for more extensive instructions on evacuation and other emergency response procedures.

APPLIES TO

Ducommun AeroStructures New York Inc.

PROCEDURE

1. Discovering personnel. Upon discovery of release or potential release of the material listed above outside of primary (intended) containment, discovering personnel will:
 - 1.1 Direct personnel in the immediate area to clear the area within a 50-foot radius
 - 1.2 Immediately notify their supervisor
 - 1.3 Personnel are empowered to initiate an evacuation by pulling a fire alarm
2. Team Lead/Supervisor. The team lead/supervisor will:
 - 2.1 Assess the spill
 - 2.2 Evacuation and Outside HazMat Team
 - 2.2.1 Plant evacuation and summoning the Outside HazMat Team via the Fire Department by calling 911 will be necessary under the following conditions:
 - 2.2.1.1 Spill greater than 2½ gallons
 - 2.2.1.2 Visible vapor cloud
 - 2.2.1.3 Odor detected

- 2.2.2 Pull fire alarm to evacuate
- 2.2.3 Call 911 to contact the Fire Department to summon the HazMat team
- 2.2.4 Summon contract spill team (e.g., Veolia) if deemed necessary
- 2.2.5 Instruct personnel to shut down processes if safe to do so (e.g., shut down can be done from another location; easy, single switch or valve operation as they are evacuating, etc.)
- 2.2.6 Consult WI-00237 RCRA Contingency Plan for more extensive instructions on evacuation and other emergency response procedures
- 2.3 If evacuation and outside hazmat team not required, clear the area 50-feet away of personnel
- 2.4 Control pedestrian traffic while remaining at a safe distance including providing verbal instructions and setting up barricades. Personnel may be instructed to assist in this step if safe to do so. See Section 4.
- 2.5 Notify the EHS Manager and the Hazmat Technicians by announcing over the PA system "HazMat team to [Area]". (See Appendix 2.5 for F-00639 Emergency Response Contact Information for more contact information). Inform them of the following:
 - 2.5.1 Material released
 - 2.5.2 Quantity
 - 2.5.3 Location
 - 2.5.4 Source of the spill
 - 2.5.5 If the spill is ongoing
 - 2.5.6 Other identified hazards

3. HazMat Technicians

HazMat Technicians must be HAZWOPER trained!!

If summoned to a spill, the HazMat Technicians will:

- 3.1 Respond as a team of four minimum
- 3.2 Two will 'suit up' and respond. Two will serve as attendants. See Section 4.
- 3.3 Assess the spill and confirm the supervisor's assessment (e.g., material released, size, the emergency response, safe distances, etc.) including the need for evacuation. See paragraph 2.2 for more information on plant evacuation.

3.4 **Put on the appropriate PPE. See Table 3.4 of this document.**

3.5 Assess the source of the spill

3.6 If the spill is ongoing and is beyond drops or weeps, **STOP** and call the fire department

3.7 If the spill is ongoing as drops or weeps, stop the spill if safe to do so

3.8 Use pads and socks designed for high concentration acids ('chemical/hazmat', 'chemical hazmat') to contain and clean up the spill. Preferred:

3.9 Neutralize the spill with a compatible neutralizer such as Amphomag® or a dilute calcium- or magnesium-based neutralizer. **Do not** use potassium- or sodium-based neutralizers. Follow the instructions and add neutralizer slowly to prevent excess reactions.

3.9.1 Instructions for Amphomag®:

3.9.1.1 Pour Amphomag® slowly and directly onto the spill to contain and neutralize

3.9.1.2 The Amphomag® will initially turn:

3.9.1.2.1 Reddish/pink to indicate that it is an acid

3.9.1.2.2 Blue to indicate that it is a base (caustic)

3.9.1.2.3 Yellow/green and when fully neutralized. **Be aware that the material may still be reactive even when color indicates it is neutralized.**

3.9.1.3 If there is any acid or base remaining anywhere based on the color, repeat step 3.9.1.2 until the color indicates that the material is neutralized.

3.9.1.4 Guidance on needed quantity spilled material for neutralization is below:

- 70% HF = 11 lbs Amphomag®/gal spilled material
- 68% HNO₃ = 4 lbs Amphomag®/gal spilled material
- Bonderite: 7% HF/40%HNO₃ = 3.3 lbs Amphomag®/gal spilled material
- 25% sodium hydroxide = 1.8 lbs Amphomag/lb of spilled material
- 50% sulfuric acid = 0.65 lbs Amphomag/lb of spilled material

3.10 Equipment and Supplies

3.10.1 See Attachment 3.10 of this work instruction for preferred equipment. Attachment 3.10 contain Tables 1 and 2 from F-00637, Emergency Equipment List.

3.10.2 To absorb neutralized fluids or sweep up neutralizer or sorbent, use chemically non-reactive material including polypropylene materials/equipment with no metal parts.

3.10.3 Use pumps for the correct material. Using the wrong pump for these chemicals can damage the pump and create a safety risk.

3.11 Place cleaned up neutralized material in the following labeled drum type:

Spilled Material	Drum Material
Nitric acid	Stainless steel
Alko-N if wet or in solution	Carbon steel
Hydrofluoric acid	Polyethylene
Nitric hydrofluoric	
Bonderite/Alodine	
Sulfuric acid	
pH lab caustic (sodium hydroxide)	
Oakite 61B if we or in solution	

4. Attendants

4.1 The supervisor or designee will provide direction to the attendants

4.2 Attendants must:

4.2.1 Wear the following PPE:

4.2.1.1 Safety glasses

4.2.1.2 Safety boots

4.2.1.3 Latex/nitrile gloves

4.2.2 Remain at a safe distance and must not approach the spill

4.2.3 Stay out of visible vapor

4.2.4 Move away if they can smell an odor

4.2.5 Assist the responders by:

4.2.5.1 Retrieving supplies such as spill control material and depositing them at a safe distance to for responders to retrieve

4.2.5.2 Control traffic

5. Decontamination procedures:

5.1 For trace contamination, responding personnel will use a wet rag to wipe down the gear that they are wearing using wet rags provided by the assistants

5.2 For greater contamination, responding personnel will wipe down the gear that they are wearing using sorbent pads provided by the assistants

5.3 Responding personnel will then rinse their gear prior to removal of at either:

5.3.1 VS3 Cleaning Line; or

5.3.2 Outside at the southeast end of the building:

5.3.2.1 Assistants will set up the pallet stored at the southeast end of the building

5.3.2.2 Position the pallet outside near the spray hose at the southeast end of the building

5.4 PPE used in the implementation of this procedure should be thrown away

6. EHS Manager or designee. Provide for onsite technical support

7. Work Instruction Copies

7.1 Hard copies of this Work Instruction will be stored with the RCRA Contingency Plan and with each Ducommun HazMat Technician response kit.

Attachment 3.10

PPE from F-00637 Emergency Equipment List Tables 1 and 2

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Appendix 2-4)b)b)iii) – *Start Fire Pump (WI-00250)*

		WI-00250	Page: 1 of 4
		Start Fire Pump - EMS	
Coxsackie, New York	Last Reviewed Date: 7/28/23	Revision No.: A	

1. Purpose

The purpose of the Work Instruction is to provide Ducommun AeroStructures New York, Inc. (DAS NY) Maintenance personnel as well as second and third shift team leads with instructions on how to start the fire pump at the Pump House.

2. Scope

The scope is for the facility at 171 Stacey Road, Coxsackie, New York.

3. Responsibilities

3.1. It is the responsibility of the EHS Manager to:

- 3.1.1. Revise this document
- 3.1.2. Provide training to applicable personnel

3.2. It is the responsibility of the Maintenance personnel and second and third shift team leads to know how to start the fire pump

- 3.2.1. If regularly scheduled Maintenance personnel will not be onsite, the Maintenance Team Lead or designee will notify the applicable shift team lead
- 3.2.2. If the second or third shift team lead will not be onsite, they must select a step up to operate the fire pump in their absence and to train that person

3.3. It is Maintenance's responsibility to start the fire pump; however, in their absence, it is the team lead's responsibility on second and third shift.

4. Definitions

4.1. Step up: person assigned to take the place of an absent leader

5. Procedure

5.1. The fire pump is located at the "Pump House", which is located along the main driveway to the facility. See Figure 1.

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		WI-00250	Page: 3 of 4
		Start Fire Pump - EMS	
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5.2. Method 1 for Starting the Fire Pump

5.2.1. The Diesel Fire Pump Controller is located in the Pump House. See Figure 2.



Figure 2

5.2.2. Open the test valve at the bottom of the Controller. See Figure 3. You will see some water flow through the hose onto the floor.

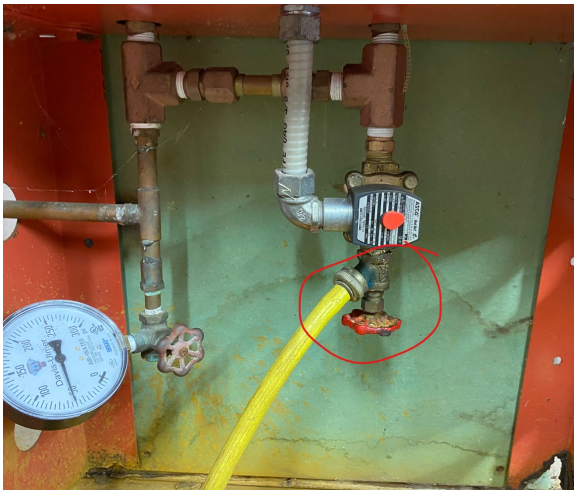


Figure 3

5.2.3. Immediately close it again.

5.2.4. Opening the valve will cause a pressure drop and the pump to start.

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5.3. Method 2 for Starting the Fire Pump

5.3.1. On the Control Panel (Figure 4) on the Diesel Fire Pump Controller (Figure 3):



Figure 4

5.3.2. Turn the black dial to 'MAN. 1' (manual)

5.3.3. Press the green START button to start the pump

5.4. Method 3 for Starting the Fire Pump

5.4.1. On the fire pump itself, push one of the two start switches up to start the pump. See Figure 5. This method can be used in the event of a power or battery failure.

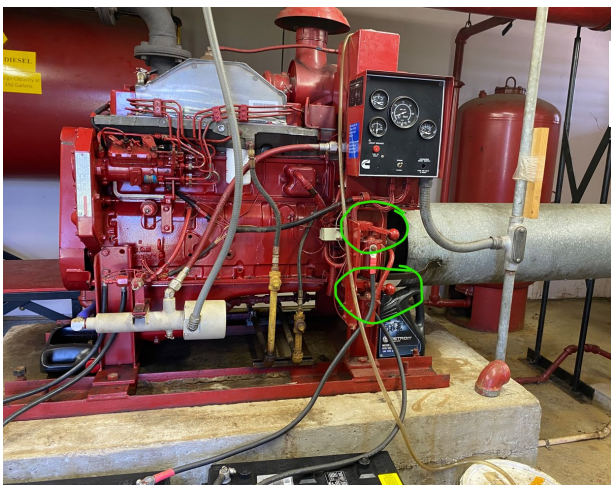


Figure 5

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Appendix 2.4 - *Utility Shutoffs (WI-00240)*

		WI-00240 Utility Shutoff - EMS	
Coxsackie, New York	Last Reviewed Date: 10/24/23	Revision No.: B	Page: 1 of 8

1. Purpose

The purpose of the Work Instruction is to provide Ducommun AeroStructures New York, Inc. (DAS NY) Maintenance personnel as well as emergency response authorities guidance on the locations and instructions for main utility shutoffs.

2. Scope

The scope is the utilities for the facility at 171 Stacey Road, Coxsackie, New York. Utilities included in this Work Instruction include electrical, water including sprinkler risers and natural gas.

3. Responsibilities

3.1. It is the responsibility of the EHS Manager to:

3.1.1. Revise this document

3.1.2. Provide training to Maintenance personnel

3.1.3. Submit this document to emergency response authorities as part of the RCRA Contingency Plan (WI-00237)

3.2. It is the responsibility of the Maintenance personnel to know how to shut of the utilities to the building

3.3. It is the responsibility of the Emergency Coordinators and designees, as defined in WI-00237 RCRA Contingency Plan, to have awareness of this procedure

4. Definitions

4.1. [RESERVED]

5. Procedure

5.1. Maintenance personnel will shut off the utilities in accordance with this work instruction when instructed to do so by:

5.1.1. Municipal, state, or contract emergency response personnel such as the fire department or hazmat team

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WI-00240

Utility Shutoff - EMS

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5.1.2. Maintenance Team Lead

5.1.3. Any manager

5.2. Locations

5.2.1. Locations of the shut offs are provide in Figure 1, which is a map of the facility

5.2.2. A verbal description of the locations are include in Table 1.

5.3. Designations, instructions for shutoff and a photograph are include in Table 1.

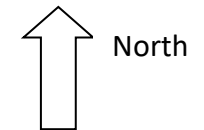
- Natural gas main valve
- Two-inch water main
- Sprinkler system risers

Switch Gear 1

- Nitrogen shutoff
- Argon shutoff

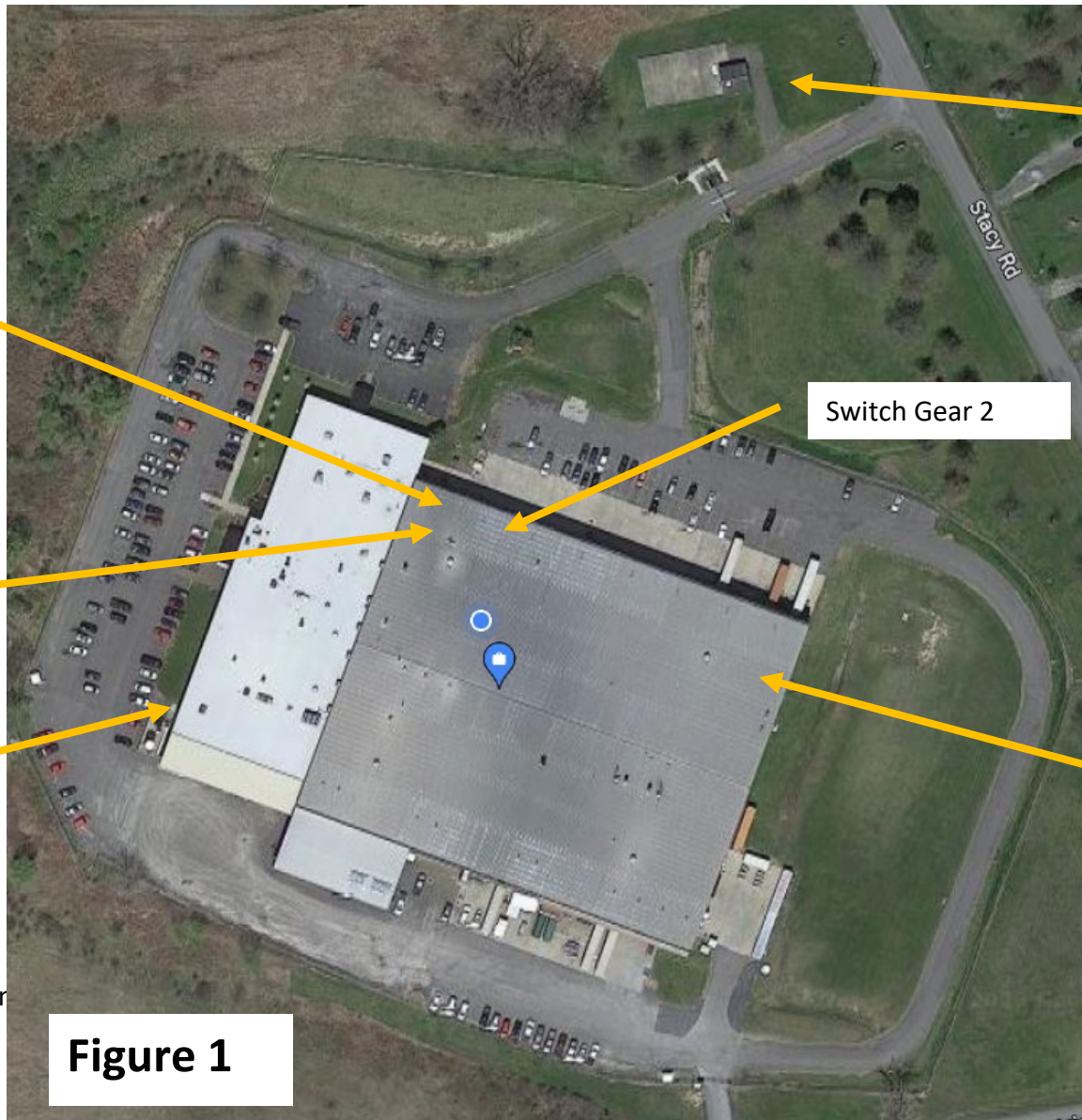
Switch Gear 2

Facility Water Main next to Fire Pump House



Three-inch water main

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Figure 1




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Utility	Designation	Location Description	Instruction for Shut Off	Photograph
Electrical	Switch Gear 1	Maintenance Electrical Utility Room in Maintenance Department at north corner of the major section of the building	Pull lever down	
	Switch Gear 2	Compressor Room at the west end along the right side of the major section of the building	Pull lever down	

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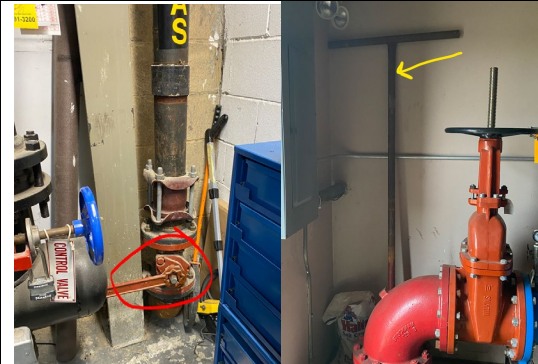
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Natural
Gas

Natural gas
main valve

Fire Riser Room in
corner at north
corner of the major
section of the
building

Turn valve
with wrench





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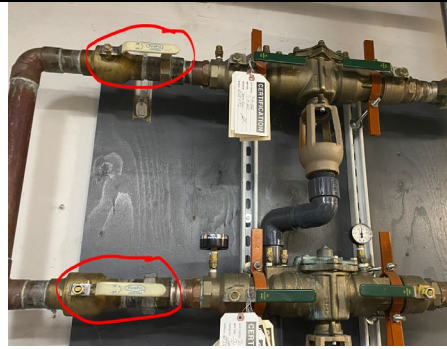
Utility Shutoff

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Water	Two-inch main	Fire Riser Room behind the risers at north corner of the major section of the building	Turn both handles 90 degrees to pipe		
	Three-inch main	pH Lab Area at northeast corner of the building	Turn handles 90 degrees to flow of pipe		

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Utility Shutoff

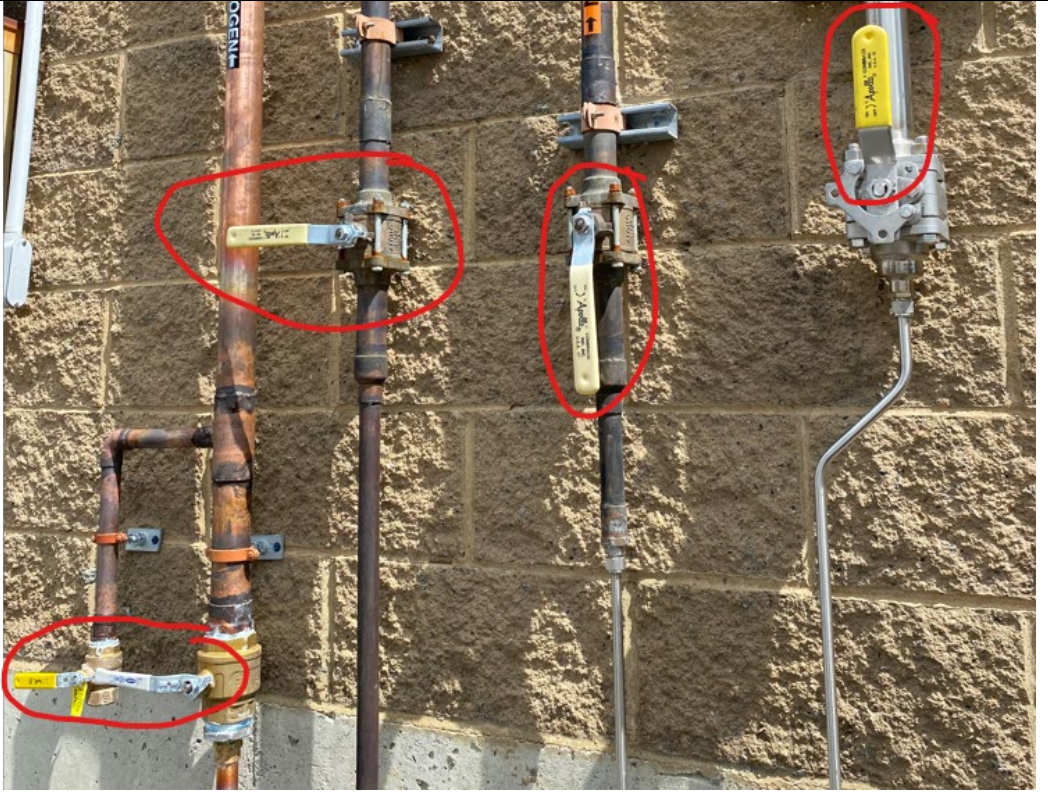
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Water	Facility Water Main	East end of Fire Pump House next to front driveway. Key to Pump House is in a combination lock box by the door.	Turn valve. The curb key wrench is stored in the Pump House.	
Sprinkler System Risers	Sprinkler System Risers	Fire Riser Room in corner at north corner of the major section of the building	Unlock valves. Turn valves.	

Nitrogen	Nitrogen Shutoff	Near “Argon tank location”, south end of Parking Lot C. Key to enclosure is in a combination lock box near the enclosure gate.	Turn valves 90 degrees to the pipe	
Argon	Argon Shutoff			

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Appendix 3.1 - *Emergency Equipment (F-00637)*

TABLE 1: SPILL RESPONSE KIT (PRIMARY) - Equipment location on F-00646 Site Safety Map

PPE/EQMT	SHORT DESCRIPTION	PREFERRED	QTY	CAPACITY
Gloves	Neoprene or Butyl of at least 22 mil or Butyl Viton	SHOWA; Chemical Resistant Gloves, 2XL, Glove Materials Butyl/Viton®, 1 PR. Grainger Item # 56JH88; Mfr. Model #890-09 SHOWA Chemical Resistant Gloves: 14 mil Glove Thick, 14 in Glove Lg, Grain, 7 Glove Size, Black, 1 PR; Item # 191P06; Mfr. Model # 874R-07; UNSPSC # 46181504K2844	Each responder has a set. One of each size available with each set with spill kit.	Chemical resistance including against hydrofluoric acid and nitric acid
Boots	Butyl Overboots	ANDAX INDUSTRIES CBRN AIRBOSS; Sku: ABB-2306-L	Each responder has a set. One of each size available with each set with spill kit.	Chemical resistance including against hydrofluoric acid and nitric acid
Respirator	Helmet M-405	3M™ Versaflo™ Respiratory Helmet Assembly M-405, with Standard Visor and Shroud, 1 EA/Case Part Number 173223M Product Number M-4053M ID 7100009447UPC 00051131173224	Each responder has one. One available with spill kit.	For use with supplied air.
	Breathing Tube BT-30	Breathing Tube: Versaflo, TR-300 Series/Versaflo Air Source/Versaflo Headtop; Grainger Item 11W054Mfr. Model BT-30	Each responder has one. One available with spill kit.	



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	3M™ Supplied Air Respirator Hose W-9435-50/07011(AAD)	3M™ Supplied Air Respirator Hose W-9435-50/07011(AAD), 1 EA/Case Part Number 070113M Product Number W-9435-503M ID 7000005373UPC 00051131070110	One available with spill kit.	
	Air Regulator Assembly	Air Regulating Assembly: Air Regulating Valves, 3M Versaflo, 3M, Valve/Waist Belt, Versaflo Item 1AGD9Mfr. Model V-300	One available with spill kit.	
	Blast Air Cart	Air Systems International BA-50 Breather Box with cart connected to compressed air system	One available with spill kit.	
	Breather box; Air Pack	Air Systems International BB50-CO Breather Box connected to compressed air system	One available at VS 1 Cleaning Line.	
Coveralls	Tychem 5000	DUPONT Hooded Chemical Resistant Coveralls: Tychem(R) 5000, Light Duty, Taped Seam, Tan, L, B, 6 PK, Item 4LTY3Mfr. Model C3127TTNLG000600	Each responder has a set. One of each size available with each set with spill kit.	Chemical resistance including against hydrofluoric acid and nitric acid
Sorbents	Sorbent rolls	BRADY SPC SORBENTS, 40 Gal Capacity per Package, Chemical/Hazmat Roll, 150' Long x 30" Wide, Yellow, Polypropylene; MSC# 84371749, Mfr# CH30DP [BrightSorb® High Visibility Safety Absorbent Roll]	One with spill kit	40 gallons
	Sorbent pads	BRADY SPC SORBENTS, Pack of (12) 12 Gal, 4' Long, 3" Diam, Polypropylene Socks; Chemical,	One pack of 12 with spill kit	12 gallons

		Yellow. MSC# 33778226, Mfr# CH412		
	Loose sorbents	5.9.1 PIG; Loose Absorbent, Chemical, Polypropylene, 5 lb. Grainger Item # 30RD06; Mfr. Model # HA8010	3 x 5 pound with spill kit	15 gallons
Neutralizer	Amphomag® (only this or other calcium/magnesium-based material)	50-pound tote; 3-pound shaker 70% HF = 11 lbs Amphomag®/gal spilled material 68% HNO₃ = 4 lbs Amphomag®/gal spilled material - Bonderite: 7% HF/40%HNO₃ = 3.3 lbs Amphomag®/gal spilled material 25% sodium hydroxide = 1.8 lbs Amphomag/lb of spilled material 50% sulfuric acid = 0.65 lbs Amphomag/lb of spilled material	3 x 3-pound shaker with spill kit 1 x 50-pound tote with spill kit	See below
Cleaning supplies	Brooms, brushes, dust pans, squeegees (Polypropylene, no metal parts)	PRO-SOURCE; 24" General Purpose Polypropylene Push Broom; 3" Bristle Length, Wood Block, Threaded Handle Connection, Handle Sold Separately; MSC# 09319310; Mfr# SWP24 CARLISLE; Angled Brooms; Width (Inch): 12in ; Handle Connection Type: Threaded ; Bristle Material: Polypropylene ; Brush Width: 12in. MSC# 95749271, Mfr# 41082EC09-Old REMCO; Dust Pans & Scoops; Type: Handheld ;	1 x each with spill kit	Low chemical reactivity



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Dust Pan Type: Handheld ; Width (Inch): 13 ; Body Material: Polypropylene ; Handle Length (Inch): 4 ; Handle Length: 4. MSC# 1439648; Mfr# 558116.

BRUSH RESEARCH MFG. Broom/Squeegee Poles & Handles; Connection Type: Threaded ; Handle Material: Wood. MSC# 95946968; Mfr# H19

REMCO. Counter & Dust Brushes; Type: Bench Brush ; Brush Type: Bench Brush ; Bristle Material: Polypropylene ; Head Length (Inch): 7.0 ; Bristle Firmness: Medium. MSC# 14396865; Mfr# 451119

TOUGH GUY Recycled Trash Bags: 96 gal Capacity, 52 in Wd, 75 in Ht, 2 mil Thick, Black, 50 PK; Grainger Item 6FWH8Mfr. Model 6FWH8

When updated, update WI-00241 High Hazard Chemical Incidental Spill Response Procedure High Hazard Chemicals

TABLE 2: PORTABLE/MOBILE CHEMICAL SERVICE PUMPS

PUMP PICTURE	PUMP; ALLOWED CHEMICALS	PUMP PICTURE	PUMP; ALLOWED CHEMICALS
	<u>Custom changeout pump:</u> Only for: - Nitric hydrofluoric acid mix - Nitric acid		<u>Hand (siphon) pump:</u> Only for: Hydrofluoric acid
	<u>Shop Vac:</u> Only for: <i>Dilute</i> nitric hydrofluoric acid <i>Dilute</i> nitric acid <i>Dilute</i> hydrofluoric acid		

When updated, update WI-00241 High Hazard Chemical Incidental Spill Response Procedure High Hazard Chemicals



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TABLE 3: OTHER - Equipment location and quantity on F-00646 Site Safety Map

Equipment	Capacity
Fire Extinguisher, ABC*	A I; BC II
Fire Extinguisher, BC*	10 lb
Fire Extinguisher, CLASS D*	30 lb
Emergency Phone	Landline. Dial 9 for external.
Secondary spill response kit (outside near Maintenance doors)	Absorption Capacity: 39 gal. Container: 55: gal
Version spill response kit	Absorption Capacity: 15 gal. Container: 20 gal

TABLE 4: FIRE PUMP HOUSE - BIN

	Quantity
Copy of Contingency Plan	1
Handheld Radios	8
Flashlights with Wands	2
General Flashlights	4
Lantern	1
High visibility vests	8
Rain Ponchos, Space Blankets	Not specified



Form No.: F-00637 Emergency Equipment List & Inspection Form - EMS

Work Instruction: WI-006216 RCRA Contingency Plan

Coxsackie, New York

Last Reviewed Date: 11/7/23

Revision No.: B

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TABLE 5: LESS-THAN-90-DAY AREA

Quantity

65-gallon overpack

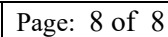
1

Pads and socks

Overpack full

Phone

1



 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 2/1/24	Revision No.: D	Page: 23 of 33

Appendix 4.1.5.1 - *Chemical Line Tank Concentrations*

Chemical Line Tank Concentrations

First number in ID indicates value stream

Tank ID	Name	Constituent	Spec High Limit	Unit	Measure
1-1 3-1 4-1 4-7 5-2	Alkaline Clean	Oakite 61B	8	oz/gal	Concentration
1-5 3-5 5-6	Titanium Etch	Nitric Hydrofluoric	60	oz/gal.	Nitric Concentration
			7.0	oz/gal.	Hydrofluoric Concentration
4-3	Passivation	Nitric Acid	58	oz/gal.	Acid Concentration
4-4	Aluminum Etch	Oakite 160	5	oz/gal	Concentration
4-6	Desmut	Nitric Acid	57	oz/gal	Acid Concentration
4-9	Deoxidizer	Bonderite* C-IC 6MU (Turco Deoxidizer)	14.0	oz/gal	Nitric Acid Concentration
			1.1	oz/gal	Turco Concentration
			0.4	mils/hr/side.	Etch Rate
4-10	Conversion Coat	Alodine* 600	2.25	oz/gal	Alodine Concentration
			2	pH	pH
4-12	Conversion Coat	Alodine* 1200	1.2	oz/gal	Alodine Concentration
			1.8	pH	pH
1-3, 3-3, & 5-4	Molten Salt Bath (Caustic)	ALKO-N			

*Bonderite = Alodine

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
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Appendix 7.3 – *Supporting Personnel*
(2 copies)

Immediately Emergency Response Supporting Personnel for Emergency Coordinator

#	DESIGNATION	DUTIES	FIRST SHIFT (DEPARTMENT)
1	Assistant Emergency Coordinator	For off 2 nd shift, 3 rd shift, weekends, during an event, select personnel and direct them to perform actions 2 – 7 below	Not Applicable
2	Emergency coordinator support retrieval	Retrieve the emergency coordinator bin at the Pump House, the spill control equipment (without the intent to respond to spills), assist with head count, etc.	Maintenance
3	Radio distribution	Distribute hand held radios to the Emergency Coordinator or designee, each gate and muster point	Maintenance
4	Front gate emergency vehicle guide	Personnel stationed at front gate directing emergency vehicle traffic	Engineering
5	Back gate emergency vehicle guide		
6	Front gate incoming shift vehicle guide	Personnel stationed at front gate directing incoming shift vehicle and personnel traffic to either: 1) Go home for actual events 2) Where to park in the event of a drill or possible false alarm	Human resources (primary) or Finance
7	Back gate incoming shift vehicle guide		
8	Non-responding emergency coordinators	Support the on-scene emergency coordinator either in person or via telephone including: 1) Immediately, contact the: a) Safety Manager b) Performance Center Director c) Maintenance Team Lead 2) Once the event is stabilized, via email, alert the other managers to the event including: a) Value Stream Managers b) Program Managers	As listed



Work Instruction: WI-00237

RCRA Contingency Plan - EMS

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- c) Quality Manager
- d) Engineering Manager
- e) Human Resources
- f) Controller

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Appendix 2-1)a) – *Shelter In Place (Tornado) (WI-00242)*

 Ducommun		Work Instruction.: WI-00242 Shelter In Place (Tornado Shelter) - EMS	
Coxsackie, New York	Last Reviewed Date: 3/25/24	Revision No.: C	Page: 1 of 3

1. Purpose

The purpose of this work instruction is to provide instruction for a shelter-in-place event.

2. Scope

This work instruction applies to Ducommun AeroStructures New York, LLC, (DAS NY) personnel at 171 Stacey Road, Coxsackie, New York.

3. Responsibilities

- 3.1. Safety Manager: Revise and maintain this work instruction.
- 3.2. Supervisors: Enforce this work instruction
- 3.3. All Employees: Follow this work instruction

4. Definitions

- 4.1. [Reserved]

5. References

- 5.1. WI-00237 - RCRA Contingency Plan - EMS

6. Procedure/Policy

- 7. The Safety Manager or an emergency coordinator in their absence will:
 - 7.1. Monitor weather conditions
 - 7.2. During a Tornado Watch, will listen to a weather radio
 - 7.3. For severe weather including a tornado warning, make an announcement to seek shelter will be made over the Public Address System and using the Bullhorn located in the Maintenance Office. If the power is out, this announcement can be made throughout the plant using the Bullhorn .
- 8. Employees will:
 - 8.1. Go to an interior room. There are several areas designated with signage (see Figure 1) as "Severe Weather Shelter Areas".
 - 8.1.1. See attached F-00646 Site Safety Map – EMS for Shelter in Place Areas identified in red.

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 Ducommun		Work Instruction.: WI-00242 Shelter In Place (Tornado Shelter) - EMS	
Coxsackie, New York	Last Reviewed Date: 3/25/24	Revision No.: C	Page: 2 of 3

8.1.2. Personnel that report to the following managers will seek shelter in the indicated locations. See Table 1.

8.2. Do not go near windows, doors or exterior walls.

8.3. Exit to these areas in an orderly manner.

8.4. Remain at the Shelter in Place until dismissed.

9. When the instructions to seek shelter is announced, the Manager or their step up will:

9.1. Provide access to their designated shelter areas for employees who do not have badge access.

9.2. Once inside the safe shelter conduct a head count to make sure all employees are present or accounted for.

10. Customers, Vendors, and Visitors are the responsibility of their hosts and need to be accounted for.

11. First Responders will bring bags if safe to do so.

12. The Safety Manager or an emergency coordinator will check with each Manager/Team Leader to tally a correct total facility headcount that has been made on the 1st Shift.

13. Off Shift Managers, supervisors and team leads will do this check on 2nd and 3rd Shifts.

14. Once the head count has been confirmed and it is determined to be safe, all employees will be informed to return to their work areas.



Figure 1

PRINTING NOTICE - Individuals are responsible for ensuring that they are using the governing version.

Table 1

Department	# Personnel	Location
VS1/VS2	23	<u>Front</u> Women's/Men's Restroom
VS3/Blank/S_R	33	Hallway to Parking Lot C
VS4	23	Men's Room in Front of VS1
VS5	21	DCC
Engineering	19	Maintenance Front Office
Quality	19	<u>Front</u> Women's/Men's Restroom
Maintenance	4	Maintenance Front Office
Purchasing	4	Hallway to Parking Lot C
HR	3	Hallway to Parking Lot C
Finance	2	Men's Room in Front of VS1
IT	2	Men's Room in Front of VS1
Program Mgmt	2	Hallway to Parking Lot C
Program Mgmt	2	Hallway to Parking Lot C
Program Mgmt	2	Hallway to Parking Lot C
GM	1	Hallway to Parking Lot C

Second shift, third shift, weekend work - Hallway to Parking Lot C

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 2/1/24	Revision No.: D	Page: 18 of 33

Appendix 2-1)b) – *Medical Emergency (WI-00251)*

 Ducommun		Work Instruction.: WI-00251 Employee Injury Procedure - EMS	
Coxsackie, New York	Last Reviewed Date: 10/24/23	Revision No.: B	Page: 1 of 3

1. Purpose

The purpose of this work instruction is to provide instruction in the event an employee is injured.

2. Scope

This work instruction applies to Ducommun AeroStructures New York, LLC, (DAS NY) personnel in Coxsackie, New York.

3. Responsibilities

- 3.1. Safety Manager: Revise and maintain this work instruction.
- 3.2. Supervisors: Enforce this work instruction
- 3.3. All Employees: Follow this work instruction

4. Definitions

- 4.1. [Reserved]

5. References

- 5.1. WI-00237 - RCRA Contingency Plan - EMS

6. Procedure/Policy

- 6.1. Have a First-Aid Responder or equally trained person treat the injured person.
- 6.2. Determine if the person needs off-site treatment.
- 6.3. Ask permission to transport.
 - 6.3.1. LIFE THREATENING: A person can refuse off-site medical treatment on the grounds of Religious or other personal reasons. If there is a question on the severity of their injury, (requiring professional medical treatment), the Authorities must be called (9911) and they (the authorities) will need to make a final determination.
 - 6.3.2. NON-LIFE THREATENING: A person can refuse off-site medical treatment on the grounds of Religious or other personal reasons. If not life threatening, but requiring professional medical treatment; have the injured employee fill out: Ducommun Form EHS 2.18.4 Medical Release Form. **Make sure to have the two witnesses sign the Form!**

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 Ducommun		Work Instruction.: WI-00251 Employee Injury Procedure - EMS	
Coxsackie, New York	Last Reviewed Date: 10/24/23	Revision No.: B	Page: 2 of 3

- 6.4. Determine if they can be transported by private vehicle, or if an emergency vehicle needed.
- 6.5. Before transport in a private vehicle, make sure person is stable enough to travel.
 - 6.5.1. If this is a Water-jet Injury, take a Medical Alert Card (located on Water-jet machine console) with you.
 - 6.5.2. Talk calmly to the injured person, they are upset enough.
- 6.6. If transported in an Emergency Unit, the responding personnel will stabilize.
 - 6.6.1. If this is a Water-jet Injury send a Medical Alert Card (located on Water-jet machine) with them.
 - 6.6.2. The injured has the right to request a certain hospital. Columbia Memorial is the default.
- 6.7. While the person is coherent, make sure to get all possible information about the injury.
 - 6.7.1. Sometimes as the injury becomes more painful a person may go into shock and forget details.
 - 6.7.2. It's important to give the attending personnel all the details possible, including the Medical Alert Card if needed.
 - 6.7.3. You are to either accompany or follow the employee as support and to make sure that they get treated with respect and have a clear understanding of what is going on as far as treatment goes.
- 6.8. Proceed to EmUrgentCare (Open 0900-2100) 11835 State Rt. 9W West Coxsackie (518) 731-9000. Or to Columbia Memorial (Hudson) Emergency Room.
- 6.9. If the injured can fill out necessary paperwork, it can be done while waiting for admittance. Otherwise it may be done after the fact. Remember your activity in a calming demeanor will help alleviate a nerve racking situation for the injured.
- 6.10. When treatment has been administered and restrictions are being discussed, Ducommun has a Light Duty/Accommodation Program for those injured on the job. The employee must have the explicit documentation from the Health Provider stating they are cleared to return to work and/or if they have restrictions. If the injured employee has restrictions, HR will need an
- 6.11. Employment Capabilities Form completed by the Health Provider stating what specifically those restrictions are. This form needs to be reviewed and approved by HR PRIOR to the employee returning to work. Unless the person is totally incapacitated, this option needs to be discussed.

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 Ducommun		Work Instruction.: WI-00251 Employee Injury Procedure - EMS	
Coxsackie, New York	Last Reviewed Date: 10/24/23	Revision No.: B	Page: 3 of 3

- 6.11.1. Remember when talking on behalf of the employee to the care-giver; do not assume an authoritative attitude. This only provokes the Health Provider. Just make them aware that the injured can be accommodated when they return to work. (with the proper documentation from the Health Provider as noted above)
- 6.11.2. As a note, let the injured know that if they are written out of work, Worker's Comp does not pay till after 5 days. They would have to take sick time etc.
- 6.11.3. Make sure that the restrictions return to work etc., is all in writing. Verbal is no good.
- 6.12. Once the necessary treatment and paperwork have been completed, bring the injured back to the facility for a quick de-brief. After that, the injured can go home for the rest of their shift. Please make sure that they can drive or can get a ride.
- 6.13. Remember that above all, this employee is hurting and they need to be treated with compassion & understanding.
- 6.14. Once the person has been treated and is stable; notify all concerned parties and HR and EH&S of the incident and current status.

PRINTING NOTICE - Individuals are responsible for ensuring that they are using the governing version.

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 2/1/24	Revision No.: D	Page: 30 of 33

Appendix 9.4.5.2 - ***Agreement with Veolia***



January 1, 2023

Mrs Mary McCoy
Ducommun Aerostructures, Inc
171 Stacey Road
Coxsackie, NY 12051

RE: Emergency Response Cost & Procedures:

Dear Mrs. McCoy:

Veolia Environmental Services (Veolia) has the technical personnel and equipment capabilities to respond to Ducommun Aerostructures, Inc. emergency response needs. All waste disposal requirements can be managed according to the environmental services agreement to be completed for these services.

Emergency Response Procedures

In the event of a chemical spill or other emergency situation, it is important that pertinent information be accurately and efficiently relayed to VEOLIA personnel. Much time and money can be saved if the situation is assessed properly and the appropriate manpower and equipment are mobilized. The following steps should be taken when an employee is responding to a chemical spill/emergency and requests the services of VEOLIA.

- 1) If possible, identify the spilled chemical and quantity. Also note the location of the spill.
- 2) ***CALL VEOLIA AT 1-800-354-2382. Dial "1".***
- 3) The information provided will be given to the "on-call" Veolia representative, who will initiate internal communications with Veolia operations personnel, and the response action will begin to develop. You will be contacted by a representative of Veolia with first response communications.
- 4) Once the level of response has been determined, the appropriate personnel and equipment will be mobilized. A subcontractor may be contacted to assist with the response.

Emergency response equipment that will be on-site when a field crew is picking up chemicals.

The following emergency response equipment is provided with each service vehicle at time of

service:

- 85 gallon drum over pack
- Vermiculite



- Personal Protective Equipment (tyveks, gloves, boots, respirators)
- ABC dry chemical fire extinguisher
- Fully equipped first aid kit including eye wash
- Drum opening tools, shovel, poly sheeting
- Empty containers
- pH paper to assess corrosivity
- Spare fuses, flashlights
- Reflective triangles
- Mobile phone

Spill equipment available, if necessary, through the Emergency Response Clean-up Team (Subcontractor)

- Vacuum Truck
- Spill control trailer
- Special pumps and tools
- Large stock of absorbents (vermiculite, speedi-dry, booms, activated carbon, lime)
- Self-Contained Breathing Apparatus
- Earth excavation equipment and water-tight dump trailers

Emergency Response Costs

Annual Administrative Fee: \$500.00

During normal business hours; Monday – Friday 8 am – 4 pm:

\$1,000.00 flat fee

\$115.00 per hour for a Field Supervisor

\$95.00 per hour for a Technician

After normal business hours; Monday – Friday 5 pm – 7:59 am:

\$1,750.00 flat fee

\$172.50 per hour for a Field Supervisor

\$142.50 per hour for a Technician

Sundays and Holidays:

\$2,250.00 flat fee

\$230.00 per hour for a Field Supervisor

\$190.00 per hour for a Technician

Rates for additional services, equipment, and supplies, should they be required, are listed below.



Please return this quotation indicating your acceptance with your signature and purchase order number below.

We value the opportunity to service your environmental needs. If you have any questions or concerns, please contact me at (518) 332-5529.

Sincerely,
Veolia Environmental Services

Megan Pellam

Megan Pellam
Account Manager

Cc: Renee Spadaro, TSR, Veolia

ACCEPTED:
Ducommun Aerostructures, Inc.

By: Mary A. N¹^c Coy
Title: EHS Manager
Date: 5/23/23
Purchase Order No: _____



2021 TIME AND MATERIALS RATES

EMERGENCY RESPONSE FEES & RATES:

Annual Administrative Fee: \$500.00

During normal business hours; Monday – Friday 8 am – 4 pm: \$1,000.00 response fee

After normal business hours; Monday – Friday 5 pm – 7:59 am: \$1,750.00 response fee

Sundays and Holidays: \$2,250.00 response fee

Labor- North East

	Regular Per Hour	Overtime Per Hour	Premium Per Hour
Section 1.1 Environmental Personnel/Administrative			
Administrative Assistant/Field Clerk	\$48.75	\$73.25	\$97.50
Health & Safety Specialist	\$107.00	\$107.00	\$107.00
Field Chemist	\$77.50	\$116.25	\$155.00
Field Technician	\$95.00	\$142.50	\$190.00
Truck Driver (Commercial License - Haz Mat)	\$70.00	\$105.00	\$140.00
Equipment Operator	\$70.00	\$105.00	\$140.00
Foreman	\$70.00	\$105.00	\$140.00
Superintendent	\$89.00	\$133.50	\$178.00
Response Manager	\$115.00	\$174.50	\$190.00
Engineer	\$114.50	\$114.50	\$114.50
Hydrogeologist	\$114.50	\$114.50	\$114.50
Scientist	\$114.50	\$114.50	\$114.50
Principal Oversight/Technical Oversight	\$145.75	\$114.50	\$114.50
Disposal Coordinator	\$53.00	\$79.50	\$106.00
Biohazard/Reactive/Explosive Technician	\$116.75	\$175.25	\$233.50
Biohazard/Reactive/Explosive Supervisor	\$175.00	\$175.00	\$175.00
Railcar Specialist	\$79.50	\$119.25	\$159.00
Firefighter	\$70.75	\$106.25	\$141.50
Section 1.2 Marine Personnel			
U.S. Coast Guard Licensed Captain	\$145.75	\$218.75	\$291.50
Deckhand	\$69.00	\$103.50	\$138.00
Marine Superintendent/Non-diving Supervisor	\$145.75	\$218.50	\$291.50
Commercial Diving Supervisor	\$116.50	\$174.75	\$233.00

Commercial Diver	\$99.00	\$148.50	\$198.00
Commercial Dive Tender	\$70.75	\$106.25	\$141.50
Remote Vehicle Operator	\$126.00	\$189.00	\$252.00
Sonar Technician	\$127.25	\$190.75	\$254.50

Equipment

2.1 Other Services			
Spill Report	(minimum \$355.00)	\$114.00	Hour
Expert Witness Testimony			2 times list rates
Subcontract/Rental Equipment			cost plus 20%
2.2 Personal Protection and Safety Equipment			
Level A Protection – Trelleborg Viking NFPA Suite		\$2,500.00	Change
Level A Protection or Equivalent		\$1,200.00	Change
Level B Protection w/Responder		\$975.00	Change
Level B Protection w CPF 1-2-3		\$550.00	man/day
Level B Protection w CPF 4		\$600.00	man/day
Level B Protection w Goretex Turnout Gear		\$500.00	man/day
Level C Protection w/CPF 1-Proshield		72.00	man/day
Level C Protection w/CPF 2		\$136.00	man/day
Level C Protection w/CPF 3		\$175.00	man/day
Level D Protection w/CPF 1-Proshield		\$47.00	man/day
Cascade Manifold Breathing Air System w T Bottles		\$84.50	man/day
Breathing Air Hose (50ft Section)		\$17.50	sect/day
Air Cascade Trailer		\$360.00	Day
Self Contained Breathing Apparatus (standby)		\$190.00	Day
Portable Eye Wash		\$36.00	Day
Rope Rescue kit (standby)		\$51.50	Day
Confined Space Entry Kit w/ Tripod		\$154.00	Day
Confined Space Entry OSHA Rope Kit		\$1.00	Foot
Proximity Suits(W/SCBA)		\$825.00	man/day
USCG Floatation Vest		\$21.00	Ea/day
Nomex Suits		\$24.75	Day
Cold Weather Deck Suit		\$51.50	Day
CPF 1 Suits		\$16.75	Each
CPF 2 Suits		\$47.25	Each
CPF 3 Suits		\$79.25	Each
CPF 3 Suits, Expanded back		\$146.25	Each
CPF 4 Suits		\$79.25	Each
CPF 4 Suits-Encapsulated, expanded back		\$156.25	Each
Responder - Level B		\$680.00	Each
Responder - Level A		\$1,240.00	each
EOD Suits (Turn-out gear)		\$500.00	Day
Tyvek Suit		\$15.50	each
Poly-coated Tyvek Suit		\$31.00	each
Rain/Splash Gear		\$25.75	set
PVC Acid Suit		\$31.00	set
2.3 Transport Equipment			
Automobile		\$55.25	day
Pick-up Truck		\$92.75	day
Response Managers Pick-up Truck		\$190.00	day

Four Wheel Drive Vehicle	\$136.75	day
Utility Truck (1 ton payload)	\$114.50	day
Utility Truck (1 ton payload) w Lift Gate / Box Van	\$153.75	day
Stake Bed Truck (5 ton payload) / Box Van	\$300.00	day
Emergency Response Trailer (14 to 16 ft.)	\$224.00	day
Emergency Response Trailer (18 to 25 ft.)	\$308.00	day
Emergency Response Trailer (> 25 ft)	\$325.00	day
ER Command Center Trailer	\$1,030.00	day
Semi-Tractor	\$48.00	hour
Rolloff Trailer	\$33.00	hour
Rolloff Truck	\$43.00	hour
Rolloff Box (20 yd)	\$12.50	day
Rolloff Drop Charge	\$250.00	each
Dump Truck	\$37.00	hour
Dump Trailer	\$129.00	day
Flat Bed Trailer (40 ft)	\$52.00	day
Low Boy	\$206.00	day
Office Trailer	\$57.00	day
Equipment Trailer (Skidsteer)	\$52.00	day
Utility Trailer (enclosed) (14 - 18)	\$52.00	day
Semi-van Trailer (40 ft.)	\$62.00	day
Tanker Trailer (non vacuum) (7,000 gal.)	\$33.00	day
Tanker Trailer (non vacuum) (5,000 gal.)	\$21.50	day
Sludge Tanker Trailer	\$20.50	day
2.4 Vacuum Equipment		
Vacuum Trailer Non-regulated waste, Hourly	\$57.00	hr
Vacuum Trailer Regulated waste, Hourly	\$72.00	hr
Straight Truck < 3,500 gallon capacity Non-regulated waste, Hourly	\$76.50	hr
Straight Truck < 3,500 gallon capacity Regulated waste, Hourly	\$98.50	hr
Straight Truck > 3,500 gallon capacity Non-regulated waste, Hourly	\$81.50	hr
Straight Truck > 3,500 gallon capacity Regulated waste, Hourly	\$104.00	hr
High Velocity Vacuum Truck (ie. supersucker, guzzler, hivac)	\$98.00	hr
Cyclone Separator for High Velocity Vacuum Truck	\$31.00	hr
Vacuum Unit (800 gal.; w/50 ft hose) (mini-vacuum)	\$46.00	hr
Vacuum Box	\$52.00	day
Vacuum Box Drop	\$250.00	each
Portable HEPA Vacuum units w/o Filter	\$77.00	day
Mercury HEPA Vacuum w/o Filter	\$360.00	day
HEPA Drum Vacuum w/o Filter	\$221.00	day
Mercury HEPA Vacuum Filter	Replacement cost & 20%	
HEPA Vacuum Filter	\$135.00	each
Explosive Proof HEPA Vacuum	\$155.00	day
Drum Vacuum (Air)	\$62.00	day
Tornado Drum Vac (Electric)	\$155.00	day
Utility Vacuum	\$35.00	day
Vapor Scrubber Unit	\$1,020.00	day
Pneumatic Vacuum Transfer Trailer	\$258.00	hr
2.5 Waste Excavation and Handling Equipment		
Rubber-Tired Loader (CAT 930 or Equivalent)	\$546.00	day
Crawler Dozer (CAT D-5 or Equivalent)	\$655.00	day
Trackhoe Excavator (CAT 330 or Equiv.)	\$2000.00	day
Trackhoe Excavator (CAT 320 or Equiv.)	\$1200.00	day
Backhoe (Case 580 or Equivalent)	\$500.00	day
Fork Truck	\$329.00	day
Bobcat(Skidsteer)	\$400.00	day
Skidsteer Sweeper	\$82.00	day

2.6 Mobile Treatment and Recovery Equipment

Hydraulic Dredge	Priced per project	
Holding Tank (> 5,000 gal.) (5 day Minimum, plus mob/demob)	\$52.00	day
Frac Tank (21,000 gal) (5 day Minimum plus mob/demob)	\$82.00	day
Poly Storage Tanks (<500 gals) (5 day min)	\$16.00	day
Poly Storage Tanks (>500- 5000 gals) (5 day min)	\$41.00	day
Bag Filter Unit (Filters extra)	\$28.00	day
Mobile oil/water separator/air stripper trailer	\$1,290.00	day

2.7 Pumping Equipment

1",2",3" Air Diaphragm Pump	\$155.00	day
2" Hydraulic chemical pump w/Power Pack	\$360.00	day
2" Submersible Electric Pump	\$98.00	day
3" and 4" Trash Pump	\$206.00	day
3" Submersible Electric Pump	\$165.00	day
4" Air Diaphragm Pump	\$258.00	day
4" Electric Centrifugal Sludge Pump	\$128.00	day
4" Hydraulic Sludge Pump w/ Power Pack	\$465.00	day
4" Submersible Electric Pump	\$232.00	day
6" Hydraulic Sludge High Head Pump w/Power Pack	\$1,030.00	day
6" Hydraulic Sludge Pump w/ Power Pack	\$1,030.00	day
6" Trash Pump	\$309.00	day
8" Hydraulic Sludge Pump w/ Power Pack	\$1,545.00	day
10" Trash Pump	\$515.00	day
Utility pump / 12 Volt Transfer Pump	\$52.00	day
Explosion proof electric Drum Pump	\$155.00	day
Drum siphon pump	\$16.00	each
Corken Compressor	\$1,000.00	day Plus Rebuild
Blackmer Pump w Power Pack	\$450.00	day
Diaphragm Pump Rebuilding Kit 1", 2", 3"	\$360.00	ea
Diaphragm Pump Rebuilding Kit 4"	\$515.00	ea

2.8 HOSE

Fittings Charge	\$320.00	Per transfer
Suction 2" (20 ft section) (Non Chem)	\$10.50	day
Suction 3" (20 ft section) (Non Chem)	\$16.00	day
Suction 4" (20 ft section) (Non Chem)	\$22.00	day
Suction 6" (20 ft section) (Non Chem)	\$32.00	day
Fire 1.5" (50 ft section)	\$27.00	day
Fire 2.5" (50 ft section)	\$37.00	day
Fire 3.0" (50 ft section)	\$43.00	day
2" Solvent/petroleum	\$1.00 ft or	cost & 20%
2" Acid/caustic	\$2.50 ft or	cost & 20%
2" Disposable Flex hose	\$30.00	100' roll
4"- 6" Disposable Flex hose	\$1.50	foot/day
8" Disposable Flex hose	\$2.00	foot/day
1", 2", 3" Chemical hose w/appropriate fittings	\$3.25	foot/day
2", 3" Discharge (100' section) (non-chemical) additional	\$37.00	day
Hydraulic hose (50' section) additional	\$52.00	ft/day

2.9 Industrial Services Equipment

Sewer Cleaning Truck / Jetter Water Truck 85 gpm, 2000 psi	\$90.00	hr
Intrinsically Safe Sewer Inspection Unit	\$165.00	hr
Non-Intrinsically Safe Sewer Inspection Unit	\$110.00	hr
Skid Mounted Jetter Water Unit(240 gpm, 2500psi)	\$143.00	hr
Sewer Jetter Water Truck 85 gpm,1500 psi	\$55.00	hr
Comb Jetter/Vac Truck (65 gpm, 3000 cfm)	\$95.00	hr
Comb Jetter/Vac Truck (85 gpm, 3500 cfm)	\$111.00	hr
Comb Jetter/Vac Truck (138 gpm, 4500 cfm)	\$132.50	hr



	Easement Reel w/ Trailer	\$40.00	hr
	Pump Trailer/Heat Exchanger	\$230.00	hr
2.10 Oil Spill Equipment			
	Drum Skimmer-Hydraulic w/Power Pack	\$740.00	day
	Drum Skimmer-Pneumatic w/o Power Pack	\$432.00	day
	Skim-Pac 2200 Weir Skimmer	\$155.00	day
	2" Weir Skimmer	\$103.00	day
	Boom Boat - 18'-20'	\$464.00	day
	Boom Boat - 24'	\$567.00	day
	Jon Boat (12-14'; with motor)	\$110.00	day
	Jon Boat (12 - 14' without motor)	\$75.00	day
	Containment Boom - 18"	\$2.00	ft/day
	Containment Boom - 18" (standby)	\$1.00	ft/day-Stby
	Containment Boom - 36"	\$3.50	ft/day
	Containment Boom - 36" (standby)	\$1.75	ft/day-Stby
	Boom Anchor System	\$77.00	day
	Boom Lights	\$21.00	each
	USCG Floatation Vests	\$21.00	day
	VHF-FM Hand Held Radio	\$21.00	Ea/day
	Floto-pump	\$82.00	day
	Oil Blower, Gas Powered	\$51.00	day
2.11 Marine Specialty Equipment			
	Shallow Air Package	\$260.00	day
	Deep Air Package (Single Chamber)	\$950.00	day
	Remote Operated Vehicle - Phantom HD2	\$1,236.00	day
	Digital Side Scan Sonar	\$650.00	day
	Resonance Multi-Beam Sonar	\$1,545.00	day
	Sector Scanning Sonar	\$310.00	day
	Differential Global Positioning System	\$103.00	day
	26ft Portable Survey Boat	\$950.00	day
	28ft Portable Tug - 275hp Diesel Inboard	\$950.00	day
	25ft x 35ft x 2.5ft Self-propelled Portable Crane Barge W/Spuds and 8,000lb Hydraulic Crane	\$1,500.00	day
	40ft x 50ft x 4ft Portable Barge W/spuds	\$750.00	day
2.12 Compression Equipment			
	Diesel Air Compressor < 300 cfm	\$305.00	day
	Air Compressor, < 300 cfm	\$191.00	day
	Hot Water Press. Wash Unit (2,500 - 3,000 PSI)	\$220.00	day
	Pressure Wash Unit (2,500 - 3,000 PSI)	\$154.00	day
	Pressure Wash Unit (1,000 - 1,500 PSI)	\$103.00	day
	Air Blower/Air Evacuator	\$26.00	day
	Waterblaster (10,000 PSI)	66.00	hr
	Waterblaster (20,000 PSI)	\$131.00	hr
	Air Hose (3/4", 50' section)	\$16.00	sect/day
	Graco Wash Unit	\$103.00	day
2.13 Sampling and Analytical Equipment			
	Photoionization Detector (PID Meter)	\$155.00	day
	O2/LEL/Toxic Meter (Quad Gas Monitor)	\$103.00	day
	Radiation Meter	\$103.00	day
	Laser temperature meter	\$36.00	day
	Jerome Mercury Monitor	\$360.00	day
	VM 3000 Mercury Monitor / Lumex	\$515.00	day
	Field Characterization Kit	\$30.00	Per Sample
	Megger Meter	\$52.00	day
	GPS Unit	\$25.00	day
	UHRA First Defender	\$500.00	day



	Cyanide Meter	\$103.00	day
	Chlorine Meter	\$103.00	day
	pH Paper	\$8.00	roll
	BTA Guardian Analyzer	\$675.00	day
	Ultraviolet Gemicidal Lighting	\$103.00	day
	Draeger Air Monitoring Pump w/o tubes	\$16.00	day
	Draeger Tubes	\$10.00	each
	Asbestos Monitoring Pump	\$26.00	day
	Personal Air Sampling Pump	\$33.00	day
	Clor-n-oil test kit	\$21.00	each
	Clor-n-soil test kit	\$26.00	each
	Rocket Fuel Test Kit	\$4.50	Each sample
	X Spray Sample Kit	\$3.33	Each sample
	Smart II Biological Detection Tickets	\$113.00	each
	BTA Test Biological Test Strip (Agent Specific)	\$150-500	each
	Wipe Sample Kit	\$77.00	each
	Coliwasa	\$23.00	each
	Glass Sampling Tubes (4')	\$3.25	each
	Sample Thief, 75 ml	\$3.25	each
	Split Barrel Hand Sampler	\$41.00	day
	Hand Auger	\$16.00	day
2.14 Specialized Tools and Equipment			
	Drum Cart	\$21.00	day
	Glove Box	\$100.00	day
	Tank Tap Machine	Priced per project	
	Non-Sparking Tool Set	\$103.00	day
	Pressurized Gas Overpack Containers	\$825.00	day
	Plug & Patch kit	\$160.00	each
	Tank Truck Rollover Trans Kit/Hot tap kit	\$1,030.00	day
	Betz Valve-Tank Truck Rollover	\$258.00	day
	Forklift Drum Holder	\$16.00	day
	Evacuation Fan	\$77.00	day
	HEPA Negative Air Machine (w/o Filter replacement)	\$155.00	day
	Portable Flare Stack	\$206.00	day
2.15 Miscellaneous Equipment			
	Generator (5 kW)	\$82.00	day
	Generator (15 kW)	\$180.00	day
	Generator (100 kW - 200 kW)	\$360.00	day
	Portable Light Set	\$30.00	day
	Intrinsically Safe Portable Lights, Portable	\$103.00	day
	Hammer Drill	\$52.00	day
	Air Hammer (bits extra)	\$51.00	day
	Chop Saw (Concrete/Metal) (Portable) (1 blade incl.)	\$51.00	day
	Cutting Torch (Oxygen/Acetylene Not Included)	\$41.00	day
	Hand tool allowance / Small tools	\$67.00	day
	Portable Welder	\$155.00	day
	Pneumatic Pipe Plugs	\$103.00	day
	Phone - Mobile	\$35.00	day
	SAT Phone	\$80.00	Call
	Field Printer/Copier	\$31.00	day
	Field Computer	\$21.00	day
	Photo Documentation	\$30.00	day
	Chain Saw	\$51.00	day
	Portable Heater (Salamander)	\$51.00	day
3.1 Containers			
	2-5 gal. Plastic Pails	\$14.00	each



5 gal. metal drum	\$16.00	each
14 Gallon Plastic Drum	\$46.00	each
20 gal Fiber Drum	\$21.00	each
30 gal. Plastic Drums	\$48.00	each
30 gal. Fiber Drums	\$32.00	each
55 Gallon Metal Open Top Drum (Reconditioned)	\$53.25	each
55 Gallon Metal Closed Top Drum	\$33.00	each
55 gal. Plastic Drums	\$75.25	each
85 gal. Overpack Drums (Metal)	\$175.00	each
95 gal. Overpack Drums (Plastic)	\$206.00	each
Poison pack, 12A10	\$36.00	each
Asbestos Bag / Drum Liner 6 ml	\$2.50	each
Cubic Yard Box - Gaylord	\$115.00	each
IBC Container Tote (Reconditioned)	\$180.00	each
3.2 Packaging		
Drum Liner (Heavy Duty Corragated)	\$18.00	each
Shrink Wrap	\$26.00	roll
Rolloff Box Liner (20 yd)	\$65.00	each
3.3 Gloves		
4H Chemical Gloves	\$6.50	pair
Acid Gloves.(Milled Neoprene)	\$16.00	pair
Cloth Gloves	\$2.25	pair
Gloves, Winter Poly Liners	\$4.25	pair
Leather Work Gloves	\$6.00	pair
Nitrile Interior Gloves (NDEX) (50 pair/box)	\$13.50	box
PVA Gloves	\$36.00	pair
PVC Gloves	\$8.00	pair
Solvex Gloves	\$15.50	pair
Viton Gloves	\$145.00	pair
3.4 Boots		
Neoprene Boots	\$26.00	pair
PVC/Latex Disposable Boots (Nuke boots)	\$6.75	pair
Rubber/PVC Boots/Beta	\$125.00	pair
3.5 Respirator Cartridges		
Respirator Cartridges - GME	\$15.00	pair
Respirator Cartridges - GME - P100	\$23.00	pair
Respirator Cartridges - P100	\$10.00	pair
Respirator Cartridges - Mersorb	\$26.00	pair
Respirator Cartridges - Mersorb - P100	\$41.00	pair
3.6 Face/Eye Protection		
Face Shields	\$8.50	each
Goggles	\$4.25	each
Safety Glasses	\$6.25	pair
Welding Goggles	\$20.00	each
3.7 Cleaning Supplies		
Alconox (4lb box)	\$26.00	each
Brute Force (1 gal)	\$17.00	each
Mercury Decontamination Solution (HGX)	\$10.50	pound
Micro Blaze (5 gal)	\$250.00	each
Micro Blaze Application Kit	\$315.00	day
Paper towels (reinforced) (box)	\$13.50	box
PCB Decontamination Solution (10 gal)	\$270.00	each
Simple Green	\$18.00	Gal.
Trash Bags (100/box)	\$5.25	box
Decon Pools (100 gals)	\$515.00	each

	DIRS BioChem Decon Kit	\$925.00	kit
3.8 Sorbents/Neutralizing Agents			
	Citric Acid	\$82.00	bag
	Gap Seal	\$21.00	each
	Gypsum	\$16.00	bag
	Oil dry / Floor dry / Grand sorb	\$16.00	bag
	Sand bags	\$2.25	each
	Soda Ash	\$36.00	bag
	Super Absorbent Powder (S.A.P.) (25gal pail)	\$47.00	each
	Vermiculite	\$20.00	bag
	Absorbent Pads (17" X 19")	\$95.00	Bale
	Absorbent Boom (8" x 10')	\$65.00	each
	Absorbent roll (4'x150' / Roll)	\$125.00	roll
3.9 Miscellaneous			
	Barrier Tape/Hazard Tape	\$21.00	roll
	Chest Waders	\$77.00	pair
	Fence Post	\$5.25	each
	Waste Manifests	\$5.25	each
	Drum Labels	\$1.00	each
	Plastic Snow Fence (50 ft)	\$36.00	roll
	Poly Rope (3/8")	\$0.20	foot
	Poly Rope, Nylon (1/2')	\$0.30	ft
	Sample Jar (4oz)	\$3.25	each
	Sample Jars (1 qt.)	\$3.25	each
	Disposable Bailer	\$10.00	each
	Duct Tape	\$6.75	roll
	Visqueen, 6ml, 20" x 100'	\$115.00	roll
	Visqueen, 6ml, 40" x 100'	\$270.00	roll



PURCHASE ORDER

171 STACEY ROAD
COXSACKIE, NY 12051
PHONE (518) 731-2791 . FAX (518) 731-6333

P.O. # FPU100957
Page 1

NEW PURCHASE ORDER

Change Sequence
Supplier : S47031
Order Date: 06-03-23
Buyer : Linda J Barley
Phone : 518-731-4657 / 518-731-6333
Email : LBarley@ducommun.com

Permit#
Delivery Address
Ducommun Aerostructures
171 Stacey Road
COXSACKIE
New York 12051

VEOLIA NORTH AMERICA
126 MORRIS RD.
SCHENECTADY
New York 12304
518-332-5529

Ref/Contact : Veolia ER standby a
Request By : FPR020865/MCCOY
Ref : see attached

Megan Pellam
BILL TO: DUCOMMUN AEROSTRUCTURES,
ATTN: ACCOUNTS PAYABLE, 23301 WILMINGTON AVE, CARSON, CA 90745-6209
EMAIL FOR INVOICES ONLY : Accountspayable@ducommun.com

If Ducommun pays for the freight cost per existing Purchase Order OR Agreement, AND has not specified a carrier on this order, for Less Than Truckload (LTL) or International Shipments, please contact your Ducommun location where the Purchase Order / Agreement originated and communicate the following:

- 1) Dimensions of shipment
- 2) Weight of the shipment
- 3) Class of Shipment and Description
- 4) When it is ready to be picked up
- 5) Your hours of operations for pick-up of shipment.

A Ducommun contact will direct you with instructions. Please note, if the vendor of the Purchase Order or Agreement ships the product without consulting Ducommun, Ducommun has the right to reduce the invoice amount by the freight amount included on the vendor invoice.

Ship Via On Site Service

Terms of Payment 75 Net 75 Days
Terms of Delivery SHP SHIPPING POINT

SBA Information :

Line Seq	Quantity Part	Unit Rev	Item Description	Tax	Account #	Due on Dock Date	Unit Price	Extension
10	1.0000	EA	SAFETY SUPPLIES AND SERVICES	N	531100	06/08/2023	500.0000	500.0000
SAFETY RACK CLIPS								
0			SAFETY SUPPLIES		Work Center F984			

Emergency Response Cost & Procedures:

06/03/2023 12:16 pm



171 STACEY ROAD
COXSACKIE, NY 12051
PHONE (518) 731-2791 . FAX (518) 731-6333

PURCHASE ORDER

P.O. # FPU100957
Page 2

Change Sequence

NEW PURCHASE ORDER

Line Seq	Quantity Part	Unit Rev	Item Description	Tax	Account #	Due on Dock Date	Unit Price	Extension
			Veolia Environmental Services (Veolia) has the technical personnel and equipment capabilities to respond to Ducommun Aerostructures, Inc. emergency response needs. All waste disposal requirements can be managed according to the environmental services agreement to be completed for these services. Emergency Response Procedures In the event of a chemical spill or other emergency situation, it is important that pertinent information be accurately and efficiently relayed to VEOLIA personnel. Much time and money can be saved if the situation is assessed properly and the appropriate manpower and equipment are mobilized. The following steps should be taken when an employee is responding to a chemical spill/emergency and requests the services of VEOLIA. 1) If possible, identify the spilled chemical and quantity. Also note the location of the spill. 2) CALL VEOLIA AT 1-800-354-2382. Dial "1". 3) The information provided will be given to the "on-call" Veolia representative, who will initiate internal communications with Veolia operations personnel, and the response action will begin to develop. You will be contacted by a representative of Veolia with first response communications. 4) Once the level of response has been determined, the appropriate personnel and equipment will be mobilized. A subcontractor may be contacted to assist with the response. Emergency response equipment that will be on-site when a field crew is picking up chemicals. The following emergency response equipment is provided with each service vehicle at time of service: · 85 gallon drum over pack · Vermiculite · Personal Protective Equipment (tyveks, gloves, boots, respirators)					

06/03/2023 12:16 pm



171 STACEY ROAD
COXSACKIE, NY 12051
PHONE (518) 731-2791 . FAX (518) 731-6333

PURCHASE ORDER

P.O. # FPU100957
Page 3

Change Sequence

NEW PURCHASE ORDER

Line Seq	Quantity Part	Unit Rev	Item Description	Tax	Account #	Due on Dock Date	Unit Price	Extension
			· ABC dry chemical fire extinguisher · Fully equipped first aid kit including eye wash · Drum opening tools, shovel, poly sheeting · Empty containers · pH paper to assess corrosivity · Spare fuses, flashlights · Reflective triangles · Mobile phone					
			Spill equipment available, if necessary, through the Emergency Response Clean-up Team (Subcontractor)					
			· Vacuum Truck · Spill control trailer · Special pumps and tools · Large stock of absorbents (vermiculite, speedi-dry, booms, activated carbon, lime) · Self-Contained Breathing Apparatus · Earth excavation equipment and water-tight dump trailers					
			Emergency Response Costs					
			Annual Administrative Fee: \$500.00					
			During normal business hours; Monday - Friday 8 am - 4 pm: 1,000.00 flat fee 115.00 per hour for a Field Supervisor 95.00 per hour for a Technician					
			After normal business hours; Monday - Friday 5 pm - 7:59 am: 1,750.00 flat fee 172.50 per hour for a Field Supervisor 142.50 per hour for a Technician					
			Sundays and Holidays: 2,250.00 flat fee 230.00 per hour for a Field Supervisor 190.00 per hour for a Technician					

06/03/2023 12:16 pm



171 STACEY ROAD
COXSACKIE, NY 12051
PHONE (518) 731-2791 . FAX (518) 731-6333

PURCHASE ORDER

P.O. # FPU100957
Page 4

Change Sequence

NEW PURCHASE ORDER

Line Seq	Quantity Part	Unit Rev	Item Description	Tax	Account #	Due on Dock Date	Unit Price	Extension
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	Goods	Costs		Tax		P.O. Total	Signature
\$	0.000	500.00	\$	0.00	\$	500.000	



171 STACEY ROAD
COXSACKIE, NY 12051
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PURCHASE ORDER

P.O. # FPU100957
Page 5

Change Sequence

NEW PURCHASE ORDER

Line Seq	Quantity Part	Unit Rev	Item Description	Tax	Account #	Due on Dock Date	Unit Price	Extension
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Purchase Order Number and Line Number must appear on all shipping containers, packing lists, invoices, bills of lading & correspondence.

Packing Lists Must Accompany Each Shipment. This Purchase Order is subject to Ducommun's terms and conditions dated 11/05/2020 as posted at http://www.ducommun.com/pdf/DCO_TC.pdf or you can request a copy from your buyer. Acceptance of the offer represented by this order is expressly limited to such terms & conditions without change or addition. The Seller's acknowledgment of this Order, commencement of work on the goods ordered or shipment of such goods, whichever occurs first, shall be deemed Seller's acceptance of the Order. This is the entire contract and any other terms or conditions proposed by Seller's acknowledgement shall not be binding upon Buyer. If applicable to the Order, please see <http://www.ducommun.com/dco/supplierlinks.aspx> or your buyer for a list of definition of Quality Clauses. You, the supplier, are required to flow down (all) purchase order requirements to your suppliers and they to their suppliers.

Supplier Acknowledgement	Printed Name, Signature and Date

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 2/1/24	Revision No.: D	Page: 25 of 33

Appendix 4.2 - *Safety Data Sheets* – to be posted at the end of the plan



SAFETY DATA SHEET

#290

Issuing Date 30-Jul-2014

Revision Date 1-May-2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name **Kolene[®] Alko-NTM**

UN-Number UN1759

Recommended use of the chemical and restrictions on use

Recommended Use In its molten state to condition surface scales and remove lubricants primarily from titanium components

Uses advised against Avoid contact with aluminum, brass, bronze

Supplier's details

Supplier Address
Kolene Corporation
12890 Westwood St.
Detroit, MI
TEL: 313 273-9220

Emergency telephone number

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (24 hour response)
Kolene Corporation 313 273-9220

2. HAZARDS IDENTIFICATION

Classification

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Danger

Hazard Statements

- Harmful if swallowed
- Causes severe skin burns and eye damage



Appearance Colorless to white **Physical State** Solid bead/flake. **Odor** Odorless

2. HAZARDS IDENTIFICATION continued

Precautionary Statements

Prevention

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

- Immediately call a POISON CENTER or doctor/physician.
- Specific treatment (see supplemental first aid instructions on this label)

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- Do NOT induce vomiting.

Storage

- Store locked up.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Potassium hydroxide	1310-58-3	75-85	*
Potassium nitrate	7757-79-1	15-25	*

* Where displayed, ranges reflect concentration variation from one product to another

4. FIRST AID MEASURES

Description of necessary first-aid measures**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion

Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

Most important symptoms/effects, acute and delayed**Most Important Symptoms/Effects**

No information available.

Indication of immediate medical attention and special treatment needed, if necessary**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**! SPECIAL FIREFIGHTING WARNING !****DO NOT USE WATER IN THE VICINITY OF THIS PRODUCT WHEN IN ITS MOLTEN STATE!**

Introduction of water or other volatile liquids on or in the molten salt bath may result in violent expulsion of the molten salt.

This material is basically nonflammable and will not burn.

Suitable Extinguishing Media

Use water, CO₂, or dry chemical extinguishers to fight fires in **storage areas** only.

Unsuitable Extinguishing Media

See warnings above.

Specific Hazards Arising from the Chemical

All water solutions of this product will be highly alkaline.

Explosion Data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge

None.
None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

North American Emergency Response Guide No. 154.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal Precautions**

Evacuate personnel to safe areas. Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions**Environmental Precautions**

See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

In case of accidental spill or leak, material should be shoveled up into steel containers for proper disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE**Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products

Reducing agents. Acids. Water. Organic material. Magnesium. Tin. Zinc. Aluminium.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3			
<u>Appropriate engineering controls</u>	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment**Eye/Face Protection****Skin and Body Protection****Respiratory Protection**

Face-shield. Goggles.
Manufacturer recommended gloves for handling corrosive materials should be worn.
Impervious clothing. Safety shoes. Rubber boots.
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid bead/flake	Appearance	Colorless to white
Odor	Odorless	Odor Threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>	
pH		All water solutions are strongly alkaline.	
Melting Point/Range	132° C / 270° F	None known	
Boiling Point/Boiling Range	1390 °C / 2534 °F	None known	
Flash Point	None.	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air		None known	
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	Not applicable		
Vapor Density	Not applicable	None known	
Specific Gravity	2 g/cc (or ml) @ 20 °C	None known	
Water Solubility	Completely soluble	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition Temperature	Nonflammable	None known	
Decomposition Temperature	No data available	None known	
Viscosity	No data available	None known	
Flammable Properties			
	Not flammable		
Explosive Properties			
Oxidizing Properties	No data available		
	No data available		
<u>Other information</u>			
VOC Content (%)	No data available		

10. STABILITY AND REACTIVITY**Reactivity**

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Incompatible products.

Incompatible materials

Reducing agents. Acids. Water. Organic material. Magnesium. Tin. Zinc. Aluminium.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Causes serious eye damage. Corrosive to the eyes and may cause severe damage including blindness.
Skin Contact	Corrosive. Causes severe skin burns.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	= 214 mg/kg (Rat)	-	-
Potassium nitrate	= 3015 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium nitrate		-		-

Reproductive Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product

Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 567 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Potassium hydroxide 1310-58-3		LC50 96 h: = 80 mg/L static (Gambusia affinis)		

Persistence and Degradability No information available.

Bioaccumulation

Chemical Name	Log Pow
Potassium hydroxide	0.83

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with federal, state, and local regulations
Contaminated Packaging	Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

UN-Number	UN1759
Proper shipping name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II
Emergency Response Guide	154

TDG

UN-Number	UN1759
Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II

MEX

UN-Number	UN1759
Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II

ICAO

UN-Number	UN1759
Proper shipping name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II

IATA

UN-Number	UN1759
Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
ERG Code	8L
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II

IMDG/IMO

UN-Number	UN1759
Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
EmS No.	F-A, S-B
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II

14. TRANSPORT INFORMATION continued

RID

UN-Number	UN1759
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Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Classification Code	C10
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II

ADR

UN-Number	UN1759
Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Classification Code	C10
Tunnel Restriction Code	(E)
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II, (E)

ADN

Proper Shipping Name	Corrosive solid, n.o.s.
Hazard Class	8
Packing Group	II
Classification Code	C10
Special Provisions	274
Description	UN1759, Corrosive solid, n.o.s. (Potassium hydroxide), 8, II
Limited Quantity	1 kg

15. REGULATORY INFORMATION**International Inventories****TSCA**

DSL	Complies
	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

15. REGULATORY INFORMATION continued**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	1000 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Potassium hydroxide	X	X	X		X
Potassium nitrate	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 3	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal Protection X

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 30-Jul-2014
Revision Date 01-May-2015
Revision Note Reformatted content JCMalloy Vice President - CTO

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet



Revision Number: 004.0

Issue date: 09/16/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	BONDERITE M-CR 600 AERO known as ALODINE 600	IDH number:	594038
Product type:	Conversion coating	Region:	United States
Restriction of Use:	None identified	Contact information:	
Company address:			
Henkel Corporation	Telephone: (860) 571-5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: MAY INTENSIFY FIRE; OXIDIZER.
HARMFUL IF SWALLOWED.
FATAL IN CONTACT WITH SKIN OR IF INHALED.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
MAY CAUSE RESPIRATORY IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.
MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
OXIDIZING SOLID	2
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	2
ACUTE TOXICITY DERMAL	2
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust or fumes. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required. [In case of inadequate ventilation] wear respiratory protection.

Response: If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Sodium borofluoride	13755-29-8	30 - 60
Chromium(VI) oxide	1333-82-0	30 - 60
Dipotassium hexafluorozirconate	16923-95-8	10 - 30

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: Oxidizing agent, may cause spontaneous ignition of combustible materials. Violent reactions may occur with organic materials or reducing agents.

Hazardous combustion products:

Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Wear appropriate personal protective equipment. Do not allow product to enter sewer or waterways.

Clean-up methods:

Spills should be cleaned immediately to prevent dispersion of airborne dusts. Follow all local, state, federal and provincial regulations for disposal.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. For industrial use only.

Storage:

Store in a cool, dry, well-ventilated area.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Sodium borofluoride	2 mg/m3 TWA Inhalable fraction. 6 mg/m3 STEL Inhalable fraction.	None	None	None
Chromium(VI) oxide	0.05 mg/m3 TWA (as Cr)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA ACT 0.1 mg/m3 Ceiling	None	None
Dipotassium hexafluorozirconate	5 mg/m3 TWA (as Zr) 10 mg/m3 STEL (as Zr) 2.5 mg/m3 TWA (as F)	5 mg/m3 PEL (as Zr) 2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	None	None

Engineering controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection:

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Wear chemical goggles and face shield.

Skin protection:

Use of impervious apron and boots are recommended. Gloves should be tested to determine suitability for prolonged contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Solid

Color:

Red-brown

Odor:

Bland

Odor threshold:

Not available.

pH:

1.3 - 1.7 (2% solution)

Vapor pressure:

Not applicable

Boiling point/range:

Not applicable

Melting point/ range:

Not determined

Specific gravity:	Not applicable
Vapor density:	Not applicable
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Moderate
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not applicable
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	May liberate hydrogen fluoride.
Incompatible materials:	Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product may react with strong alkalis.
Reactivity:	Not available.
Conditions to avoid:	This product is an OXIDIZING AGENT - avoid contact with organic material.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion
------------------------------	-----------------------------------

Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns. Prolonged or repeated breathing may cause ulceration of nasal membranes.
Skin contact:	Contact with broken skin may lead to formation of firmly margined "chrome sores". Product contains chromium, which may cause an allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and death. Following skin exposure to this product, the sensation of irritation or pain may be delayed.
Eye contact:	This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion:	This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Sodium borofluoride	None	Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive
Chromium(VI) oxide	Oral LD50 (RAT) = 25 mg/kg Oral LD50 (RAT) = 29 mg/kg Oral LD50 (RAT) = 135 mg/kg Oral LD50 (RAT) = 80 mg/kg Dermal LD50 (RABBIT) = 30 mg/kg Inhalation LC50 (RAT, 4 h) = 0.087 mg/l Inhalation LC50 (RAT, 4 h) = 0.137 mg/l	Allergen, Blood, Central nervous system, Corrosive, Carcinogen, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Reproductive, Respiratory
Dipotassium hexafluorozirconate	None	Allergen, Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Lung, Metabolic, Muscle, Teeth, Less weight gain and food intake.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium borofluoride	No	No	No
Chromium(VI) oxide	Known To Be Human Carcinogen.	Group 1	Yes
Dipotassium hexafluorozirconate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: No data available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: If discarded, this product is considered a RCRA ignitable waste, D001. This product contains chromium which is a hazardous waste (D007).

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Chromium trioxide, anhydrous
Hazard class or division:	5.1 (6.1, 8)
Identification number:	UN 1463
Packing group:	II
DOT Hazardous Substance(s):	Chromic acid, Zirconium potassium fluoride

International Air Transportation (ICAO/IATA)

Proper shipping name: Chromium trioxide, anhydrous
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CHROMIUM TRIOXIDE, ANHYDROUS
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II

15. REGULATORY INFORMATION**United States Regulatory Information**

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: Chromium(VI) oxide (CAS# 1333-82-0).
Chromium(VI) oxide (CAS# 1333-82-0).

CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Reactive
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Chromium(VI) oxide (CAS# 1333-82-0).
CERCLA Reportable quantity: Dipotassium hexafluorozirconate (CAS# 16923-95-8) 1,000 lbs. (454 kg)
Chromium(VI) oxide (CAS# 1333-82-0) 10 lbs. (4.54 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s):
2, 4, 7, 13

Prepared by: John DiCerbo, Sr. Regulatory Affairs Specialist

Issue date: 09/16/2015

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Revision Number: 005.0

Issue date: 04/04/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	BONDERITE M-CR 1200S AERO	IDH number:	593964
Product type:	Conversion coating	Region:	United States
Restriction of Use:	None identified	Contact information:	
Company address:			
Henkel Corporation	Telephone: (860) 571-5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: MAY INTENSIFY FIRE; OXIDIZER.
HARMFUL IF SWALLOWED.
FATAL IN CONTACT WITH SKIN OR IF INHALED.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
OXIDIZING SOLID	2
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	2
ACUTE TOXICITY DERMAL	2
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
CARCINOGENICITY	1A

PICTOGRAM(S)



Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust or fumes. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required. [In case of inadequate ventilation] wear respiratory protection.

Response: If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Chromium(VI) oxide	1333-82-0	30 - 60
Potassium tetrafluoroborate	14075-53-7	10 - 30
Tripotassium hexacyanoferrate	13746-66-2	10 - 30
Sodium fluoride	7681-49-4	5 - 10
Dipotassium hexafluorozirconate	16923-95-8	5 - 10

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Symptoms: See Section 11.

Notes to physician: Ocular exposure to corrosive fluoride compounds has been treated with isotonic sodium chloride or magnesium chloride. Dermal exposure to corrosive fluoride compounds has been treated with calcium gluconate or calcium carbonate gel applied topically to the affected areas to relieve pain at the site of exposure. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material.

Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	Oxidizing agent, may cause spontaneous ignition of combustible materials. Under fire conditions, decomposing material may form a hot, viscous foam. Violent reactions may occur with organic materials or reducing agents. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full.
Hazardous combustion products:	Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up.
Clean-up methods:	Spills should be cleaned immediately to prevent dispersion of airborne dusts. Do not allow product to enter sewer or waterways. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. For industrial use only.
Storage:	For safe storage, store between 5 °C (41°F) and 40 °C (104°F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store below 110 °F (43.3 °C).

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Chromium(VI) oxide	0.05 mg/m3 TWA (as Cr)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA ACT 0.1 mg/m3 Ceiling	None	None
Potassium tetrafluoroborate	6 mg/m3 STEL Inhalable fraction. 2 mg/m3 TWA Inhalable fraction.	None	None	None
Tripotassium hexacyanoferrate	None	None	None	None
Sodium fluoride	2.5 mg/m3 TWA (as F)	2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	None	None
Dipotassium hexafluorozirconate	5 mg/m3 TWA (as Zr) 10 mg/m3 STEL (as Zr) 2.5 mg/m3 TWA (as F)	5 mg/m3 PEL (as Zr) 2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	None	None

Engineering controls:	Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.
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Respiratory protection:	If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.
Eye/face protection:	Wear chemical goggles or a full face shield.
Skin protection:	Chemical resistant, impermeable gloves. The use of butyl rubber gloves is recommended. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	orange
Odor:	Bland
Odor threshold:	Not available.
pH:	1.30 - 1.60
Vapor pressure:	Not determined
Boiling point/range:	Not applicable
Melting point/ range:	Not available.
Vapor density:	Not applicable
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Flammability:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Appreciable
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not applicable
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	May liberate hydrogen fluoride.
Incompatible materials:	Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product may react with strong alkalis.
Reactivity:	Not available.
Conditions to avoid:	Oxidizing agent, may cause spontaneous ignition of combustible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes
-------------------------------------	------------------------

Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns. Prolonged or repeated breathing may cause ulceration of nasal membranes.
Skin contact:	Contact with broken skin may lead to formation of firmly marginated "chrome sores". Product contains chromium, which may cause an allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and death. Following skin exposure to this product, the sensation of irritation or pain may be delayed.
Eye contact:	This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion:	This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Chromium(VI) oxide	Oral LD50 (Rat) = 25 mg/kg Oral LD50 (Rat) = 29 mg/kg Oral LD50 (Rat) = 135 mg/kg Oral LD50 (Mouse) = 80 mg/kg Oral LD50 (Rat) = 80 mg/kg Dermal LD50 (Rabbit) = 30 mg/kg Inhalation LC50 (Rat, 4 h) = 0.087 mg/l Inhalation LC50 (Rat, 4 h) = 0.137 mg/l	Allergen, Blood, Central nervous system, Corrosive, Carcinogen, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Reproductive, Respiratory
Potassium tetrafluoroborate	None	Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive
Tripotassium hexacyanoferrate	None	Cellular
Sodium fluoride	Oral LD50 (Mouse) = 44.3 mg/kg Oral LD50 (Mouse) = 46.0 mg/kg Oral LD50 (Rat) = 32.0 mg/kg Oral LD50 (Rat) = 51.6 mg/kg	Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Metabolic, Muscle, Teeth, Less weight gain and food intake.
Dipotassium hexafluorozirconate	Oral LD50 (Mouse) = 98 mg/kg	Allergen, Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Lung, Metabolic, Muscle, Teeth, Less weight gain and food intake.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Chromium(VI) oxide	Known To Be Human Carcinogen.	Group 1	Yes
Potassium tetrafluoroborate	No	No	No
Tripotassium hexacyanoferrate	No	No	No
Sodium fluoride	No	No	No
Dipotassium hexafluorozirconate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: This product contains chromium which is a hazardous waste (D007). If discarded, this product is considered a RCRA ignitable waste, D001.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Chromium trioxide, anhydrous
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II
DOT Hazardous Substance(s): Chromic acid, Sodium fluoride

International Air Transportation (ICAO/IATA)

Proper shipping name: Chromium trioxide, anhydrous
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CHROMIUM TRIOXIDE, ANHYDROUS
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II
Marine pollutant: Chromium trioxide

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: Chromium(VI) oxide (CAS# 1333-82-0).

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Reactive
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Chromium(VI) oxide (CAS# 1333-82-0).
CERCLA Reportable quantity: Chromium(VI) oxide (CAS# 1333-82-0) 10 lbs. (4.54 kg)
Sodium fluoride (CAS# 7681-49-4) 1,000 lbs. (454 kg)
Dipotassium hexafluorozirconate (CAS# 16923-95-8) 1,000 lbs. (454 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New information added in Section(s): 14

Prepared by: Jennifer Mckay, Regulatory Affairs Specialist

Issue date: 04/04/2016

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Revision Number: 005.0

Issue date: 07/06/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	BONDERITE C-IC DEOXDZR 16R AERO known as TURCO DEOXIDIZER 16 REPL	IDH number:	594403
Product type:	Rust dissolver	Item number:	594403
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: (860) 571-5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: TOXIC IF SWALLOWED OR IN CONTACT WITH SKIN.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
HARMFUL IF INHALED.
MAY CAUSE RESPIRATORY IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.
MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	3
ACUTE TOXICITY INHALATION	4
ACUTE TOXICITY DERMAL	3
SKIN CORROSION	1A
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required.

Response: IF SWALLOWED: Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage:
Disposal:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Chromic acid	7738-94-5	10 - 30
Hydrogen fluoride	7664-39-3	5 - 10

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact:	Rinse with large amounts of running water. GET MEDICAL ATTENTION IMMEDIATELY! If iced 0.13% benzalkonium chloride (Zephiran) solution or 2.5% calcium gluconate gel are available, the rinsing may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped. If benzalkonium chloride or calcium gluconate gel is not available, rinsing must continue until medical treatment is provided.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Get immediate medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Symptoms:	See Section 11.
Notes to physician:	Ocular exposure to corrosive fluoride compounds has been treated with isotonic sodium chloride or magnesium chloride. Dermal exposure to corrosive fluoride compounds has been treated with calcium gluconate or calcium carbonate gel applied topically to the affected areas to relieve pain at the site of exposure. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use media appropriate for surrounding material.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	If evaporated to dryness, solid residue is an oxidizing agent and may cause spontaneous ignition of combustible materials.

Hazardous combustion products:

Flammable and explosive hydrogen gas may be formed when hydrofluoric acid reacts with certain metals. Hydrogen fluoride gas may evolve when chemical is subjected to prolonged high temperature.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Wear suitable protective clothing, gloves and eye/face protection.

Clean-up methods:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations. Do not allow product to enter sewer or waterways.

7. HANDLING AND STORAGE**Handling:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. For industrial use only. Use caution when combining with water; DO NOT add water to acid, ALWAYS add acid to water while stirring to prevent release of heat, steam and fumes.

Storage:

For safe storage, store at or above 40 °F (4.4 °C)
Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Thaw and mix thoroughly if frozen.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Chromic acid	0.05 mg/m ³ TWA (as Cr)	0.005 mg/m ³ TWA 0.0025 mg/m ³ OSHA ACT 0.1 mg/m ³ Ceiling	None	None
Hydrogen fluoride	2 ppm Ceiling (as F) 0.5 ppm TWA (as F) (SKIN) (as F)	2.5 mg/m ³ PEL (as F) 3 ppm TWA	None	None

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Wear chemical goggles; face shield (if splashing is possible).

Skin protection:

Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state:**

Liquid

Color:

Red

Odor:

Sharp

Odor threshold:

Not available.

pH:

< 1

Vapor pressure:

Not determined

Boiling point/range:	> 100 °C (> 212°F)
Melting point/ range:	0 °F (-17.8 °C)
Specific gravity:	1.14 - 1.17
Vapor density:	Not determined
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Evaporation rate:	Not determined
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not applicable
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	May liberate hydrogen fluoride. Decomposes with heat to produce oxides of nitrogen.
Incompatible materials:	Reacts with cyanides and sulfides to cause the release of poisonous gases. This material will react with glass, concrete, certain metals, silica containing materials, rubber, leather, and many organics. Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product may react with strong alkalies.
Reactivity:	Not available.
Conditions to avoid:	Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes
-------------------------------------	------------------------

Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns.
Skin contact:	Contact with broken skin may lead to formation of firmly margined "chrome sores". Product contains chromium, which may cause an allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and death. Following skin exposure to this product, the sensation of irritation or pain may be delayed. A component in this product may be harmful or fatal if absorbed through the skin, especially if skin is damaged.
Eye contact:	This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion:	This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Chromic acid	None	Allergen, Blood, Carcinogen, Central nervous system, Corrosive, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Reproductive, Respiratory
Hydrogen fluoride	Inhalation LC50 (RAT, 15 min) = 2689 ppm Inhalation LC50 (RAT, 1 h) = 1278 ppm Inhalation LC50 (RAT, 30 min) = 2042 ppm Inhalation LC50 (RAT, 5 min) = 4970 ppm	Allergen, Blood, Bone Marrow, Cardiac, Central nervous system, Corrosive, Irritant, Kidney, Liver, Lung, Muscle, Nervous System, Respiratory, Teeth

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Chromic acid	Known To Be Human Carcinogen.	No	Yes
Hydrogen fluoride	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002). This product contains chromium which is a hazardous waste (D007). This product contains a component or components identified as hazardous under 40 CFR 261.24. U134: Hydrogen fluoride

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Corrosive liquids, toxic, n.o.s. (Hydrofluoric acid, Chromic acid)
Hazard class or division:	8 (6.1)
Identification number:	UN 2922
Packing group:	II
DOT Hazardous Substance(s):	Chromic acid, Hydrofluoric acid

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Chromic acid)
Hazard class or division: 8 (6.1)
Identification number: UN 2922
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Chromic acid)
Hazard class or division: 8 (6.1)
Identification number: UN 2922
Packing group: II
Additional information: IMDG-Code: Segregation group 1- Acids

15. REGULATORY INFORMATION**United States Regulatory Information**

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: Chromic acid (CAS# 7738-94-5).
CERCLA/SARA Section 302 EHS: Hydrogen fluoride (CAS# 7664-39-3).
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Reactive
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Chromic acid (CAS# 7738-94-5). Hydrogen fluoride (CAS# 7664-39-3).
CERCLA Reportable quantity: Chromic acid (CAS# 7738-94-5) 10 lbs. (4.54 kg)
Hydrogen fluoride (CAS# 7664-39-3) 100 lbs. (45.4 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New information added in Section(s): 1, 7, 9, 12 and 13.

Prepared by: John DiCerbo, Sr. Regulatory Affairs Specialist

Issue date: 07/06/2015

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SAFETY DATA SHEET



1600 South Wilson Ave
Dunn, North Carolina 28334
(910) 980-1088

Hydrofluoric Acid, Aqueous (70%)

000000001807

Version 3.6

Revision Date 05/19/2016

Print Date 01/24/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hydrofluoric Acid, Aqueous (70%)

Number : 000000001807

Product Use Description : Chemical-Technical application

Note : Synonyms: HF, Anhydrous HF, AHF, Hydrogen Fluoride, HF Acid
For additional information, please visit <http://www.HFacid.com>
(available 24 hours/day, 7days/week).

Manufacturer or supplier's details : Brainerd Chemical
1600 South Wilson Ave
Dunn, North Carolina 28334

For more information call : 800-522-8001
+1-910-980-1088
(Monday-Friday,
8:00am-5:00pm)

In case of emergency call : **Transportation (CHEMTREC): 1-800-424-9300**
:
:
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid

Color : colourless

Odor : stinging

Classification of the substance or mixture

Classification of the substance or mixture : Corrosive to metals, Category 1
Acute toxicity, Category 2, Oral
Acute toxicity, Category 2, Inhalation
Acute toxicity, Category 1, Dermal
Skin corrosion, Category 1A
Serious eye damage, Category 1

Hydrofluoric Acid, Aqueous (70%)**000000001807**

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GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

Hazard statements

: May be corrosive to metals.
Fatal if swallowed, in contact with skin or if inhaled
Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**
Keep only in original container.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not get in eyes, on skin, or on clothing.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing.
Wear eye protection/ face protection.
Wear respiratory protection.**Response:**IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.**Storage:**Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Keep only in original container.**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

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Hydrofluoric Acid, Aqueous (70%)

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Hazards not otherwise classified : Causes severe burns which may not be immediately painful or visible.
May cause hypocalcemia (depletion of calcium in the body) which may be fatal.
Specialized medical treatment is required for all exposures.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Hydrofluoric acid	7664-39-3	70.00 %
Water	7732-18-5	30.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. Keep patient warm and at rest. Get competent medical attention immediately. If breathing has stopped, start artificial respiration at once. An authorized person should administer oxygen to a victim who is having difficulty breathing, until the victim is able to breathe easily by himself. Calcium gluconate, 2.5% in normal saline may be given by nebulizer with oxygen. Do not give stimulants unless instructed to do so by a physician. Victim should be examined by a physician and held under observation for at least 24 hours.

Skin contact : Remove the victim from the contaminated area and immediately wash the burned area with plenty of water for a minimum of 15 minutes. Limit washing to 5 minutes if treatment specific for HF exposure is available. Remove all contaminated clothing while washing continuously. After thorough washing for at least 5 minutes, the burned area should be immersed in

SAFETY DATA SHEET



Hydrofluoric Acid, Aqueous (70%)

000000001807

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Print Date 01/24/2017

Eye contact

a solution of 0.13% iced aqueous Benzalkonium Chloride until pain is relieved. As an alternate first aid treatment, 2.5% calcium gluconate gel may be continuously massaged into the burn area until the pain is relieved. For burns not responsive to topical treatment (as measured by pain being present for longer than 30 minutes) a physician may inject 2.5% - 5% aqueous calcium gluconate beneath, around and in the burned area. Use of local anesthetics is not recommended, as reduction in pain is an indicator of effectiveness of treatment.

: Immediately flush the eyes for at least 15 minutes with large amounts of gently flowing water. Hold the eyelids open and away from the eye during irrigation to allow thorough flushing of the eyes. Do not use the benzalkonium chloride (Zephiran) solutions described for skin treatment. If the person is wearing contact lenses, the lenses should be removed, if possible. However, flushing with water should not be interrupted, and the lenses should be removed by a person who is qualified to do so. If sterile 1% calcium gluconate solution is available, water washing may be limited to 5 minutes, after which the 1% calcium gluconate solution should be used to irrigate the eye using a syringe or a continuous irrigation device. Take the victim to a doctor, preferably an eye specialist, as soon as possible. Ice water compresses may be applied to the eyes while transporting the victim to the doctor. If a physician is not immediately available, apply one or two drops of 0.5% tetracaine hydrochloride, 0.5% proparacaine, or other aqueous, topical ophthalmic anesthetic and continue irrigation. Use no other medications unless instructed to do so by a physician. Rubbing of the eyes is to be avoided.

Ingestion

: Have the victim drink several large glasses of water or milk to dilute the acid. Do not induce vomiting. Do not give emetics or baking soda. Never give anything by mouth to an unconscious person. Give several glasses of milk or several ounces of milk of magnesia, any calcium containing antacid or grind up and administer up to 30 antacid tablets with water. The calcium or magnesium in these compounds may act as an antidote; however this has not been supported in the literature. Get immediate medical attention. Ingestion of HF is a life-threatening emergency.

Notes to physician

Treatment

: For large skin area burns (totaling greater than 25 square inches), for ingestion and for significant inhalation exposure,

Hydrofluoric Acid, Aqueous (70%)**000000001807**

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severe systemic effects may occur. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia and hyperkalemia. In some cases hemodialysis may be indicated. For certain burns, especially of the digits, use of intra-arterial calcium gluconate may be indicated. For inhalation exposures, treat as chemical pneumonia. Monitor for hypocalcemia. 2.5% calcium gluconate in normal saline by nebulizer or by intermittent positive pressure breathing with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered. A booklet titled "Recommended Medical Treatment for Hydrofluoric Acid Exposure" is available from the Honeywell HF website: <http://www.HFacid.com>.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
On dilution or dissolving in water, considerable heating always occurs.
Contact with a relatively small quantity of water creates violent reaction generating much heat and spattering of hot acid
If use of water is necessary use copious amounts
- Specific hazards during firefighting : Fire or intense heat may cause violent rupture of packages.
Use a water spray to cool fully closed containers.
Reacts violently with water.
Do not direct water spray at the point of leakage.
Contact with metals liberates hydrogen gas.
Hydrogen gas is flammable and may form an explosive atmosphere.
Diking with silicon materials is to be avoided. May form Silicon tetrafluoride gas.
- Special protective equipment for firefighters : Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.
No unprotected exposed skin areas.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.

Hydrofluoric Acid, Aqueous (70%)**000000001807**

Version 3.6

Revision Date 05/19/2016

Print Date 01/24/2017

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Immediately evacuate personnel to safe areas.
Immediately contact emergency personnel.
Ensure all affected individuals are in a safe environment.
Wear personal protective equipment. Unprotected persons must be kept away.
Keep people away from and upwind of spill/leak.
Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.
Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF).
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Prevent spreading over a wide area (e.g. by containment or oil barriers).
Diking with silicon materials is to be avoided. May form Silicon tetrafluoride gas.
Suppress (knock down) gases/vapours/mists with a water spray (fog).
Do not direct water spray at the point of leakage.
Use water spray cautiously and in large quantities.
With acids neutralization takes place under development of heat.
Do not pick up with the help of saw-dust or other combustible substances.
Neutralize acidity with an appropriate alkaline material.
Neutralize with caustics, lime, soda ash, baking soda or other appropriate alkaline material. Pay attention to the incompatibility statements in Section 10 when effecting neutralization.

SECTION 7. HANDLING AND STORAGE**Handling**

- Handling : Wear personal protective equipment.
Exhaust ventilation at the object is necessary.
Ensure all equipment (including Personal Protective Equipment

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(PPE)) is compatible with Hydrofluoric acid (HF).
Perform filling operations only at stations with exhaust ventilation facilities.
Specialized medical treatment is required for all exposures.
Plan first aid action before beginning work with this product.
When diluting, add acids to water, never the other way around.
Do not swallow.
Do not breathe vapours or spray mist.
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : No special precautions required.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.
Store in a place accessible by authorized persons only.
Store away from incompatible substances.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Plan first aid action before beginning work with this product.
Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF).

Engineering measures : Use with local exhaust ventilation.
Apply technical measures to comply with the occupational exposure limits.

Eye protection : Wear as appropriate:
Goggles or face shield, giving complete protection to eyes

Hand protection : Protective gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Wear suitable protective equipment.
complete suit protecting against chemicals

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Use NIOSH approved respiratory protection.
Have available emergency self-contained breathing apparatus or full-face airline respirator when using this chemical.

Hygiene measures : When using, do not eat, drink or smoke.

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Provide adequate ventilation.
 Keep working clothes separately.
 Contaminated work clothing should not be allowed out of the workplace.
 Do not swallow.
 Do not breathe vapours or spray mist.
 Do not get in eyes, on skin, or on clothing.
 This material has an established AIHA ERPG exposure limit.
 The current list of ERPG exposure limits can be found at
http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook_table-only.pdf.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Hydrofluoric acid	7664-39-3	TWA : Time weighted average	(0.5 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values

Further information	:	Expressed as : as F			
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Hydrofluoric acid	7664-39-3	SKIN_DES : Skin designation:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
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Further information	:	Expressed as : as F			
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Hydrofluoric acid	7664-39-3	Ceiling : Ceiling Limit Value:	(2 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
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Further information	:	Expressed as : as F			
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Hydrofluoric acid	7664-39-3	Conc : Concentration:	(30 ppm) NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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Hydrofluoric acid	7664-39-3	REL : Recomm ended exposure limit (REL):	2.5 mg/m3 (3 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
-------------------	-----------	---	----------------------	------	--

Hydrofluoric acid	7664-39-3	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :	5 mg/m3 (6 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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Hydrofluoric acid	7664-39-3	PEL : Permissi ble exposure limit	2.5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	:	Expressed as : as F			

Hydrofluoric acid	7664-39-3	TWA : Time weighted average	(3 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Expressed as : as F			

Hydrofluoric acid	7664-39-3	STEL : Short term exposure limit	(6 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Expressed as : as F			

Hydrofluoric acid	7664-39-3	TWA : Time weighted average	(3 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: stinging
pH	: Note: acidic
Freezing point	: ca. -76 °C
Boiling point/boiling range	: ca. 65 °C at 1,013 hPa
Flash point	: Note: Not applicable
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: 183 hPa at 21.1 °C(70.0 °F)
Vapor density	: 2.21 at 21.1 °C 1.76 at 26.7 °C
Density	: ca. 1.230 g/cm ³ at 20 °C
Water solubility	: Note: completely miscible
Ignition temperature	: Note: Not applicable
Decomposition temperature	: Note: Fire or intense heat may cause violent rupture of packages.

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Corrosivity

: Note: Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerisation does not occur.

Incompatible materials to avoid

: Glass and silicate-containing materials are attacked. HF contact with glass, concrete and other silicon bearing materials will yield silicon tetrafluoride gas. Pressure buildup from this process has been known to rupture glass containers. . HF contact with carbonates, sulfides and cyanides yield toxic gases such as carbon dioxide, hydrogen sulfide and hydrogen cyanide. Contact with alkalies and some oxides cause strong violent exothermic reactions. Contact with metals will yield hydrogen gas, a fire and explosive reactive hazard.
On dilution or dissolving in water, considerable heating always occurs.
When diluting, add acids to water, never the other way around.

Hazardous decomposition products

: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: Acute toxicity estimate: 7.14 mg/kg
Method: Calculation method

Acute inhalation toxicity

: Acute toxicity estimate: 0.76 mg/l , vapour
Exposure time: 4 h
Method: Calculation method

Acute dermal toxicity

: Acute toxicity estimate: 7.14 mg/kg
Method: Calculation method

Skin irritation

Hydrofluoric acid

: Species: Rabbit
Classification: Corrosive

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Method: OECD

Further information

: Note: Causes severe burns which may not be immediately painful or visible. The potential delay in clinical signs or symptoms for dilute solutions is given below.

HF Concentration (Delay in Symptoms)

>50% (Immediately Apparent)

20%-50% (1-8 hours)

0%-20% (Up to 24 hours) Symptoms might include pain, redness of the skin and possible tissue destruction. Hydrofluoric Acid will penetrate skin and attack underlying tissues. May cause hypocalcemia (depletion of calcium in the body) which may be fatal. Chronic exposure to fluoride has been reported to result in tooth mottling in children, bone fluorosis, and sometimes osteosclerosis in adults and children.

SECTION 12. ECOLOGICAL INFORMATION**Toxicity to fish
Hydrofluoric acid**

: LC50: 107.5 mg/l
Exposure time: 96 h
Species: *Oncorhynchus mykiss* (rainbow trout)
Test substance: Fluoride ion

LC50: 925 mg/l
Exposure time: 96 h
Species: *Gambusia affinis* (Mosquito fish)
Test substance: Fluoride ion

**Toxicity to daphnia and other aquatic invertebrates
Hydrofluoric acid**

: EC50: 270 mg/l
Exposure time: 48 h
Species: *Daphnia* (water flea)
Test substance: Sodium fluoride

Further information on ecology

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1790
Proper shipping name : Hydrofluoric acid
Class : 8
Packing group : I
Hazard Labels : 8 (6.1)

IATA UN/ID No. : UN 1790
Description of the goods : Hydrofluoric acid
Class : 8
Packaging group : I
Hazard Labels : 8 (6.1)
Packing instruction (cargo aircraft) : 854
Packing instruction (passenger aircraft) : 850

IMDG UN/ID No. : UN 1790
Description of the goods : Hydrofluoric acid
Class : 8
Packaging group : I
Hazard Labels : 8 (6.1)
EmS Number : F-A, S-B
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian : All components of this product are on the Canadian DSL

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Environmental Protection
Act (CEPA). Domestic
Substances List (DSL)

Japan. Kashin-Hou Law : On the inventory, or in compliance with the inventory
List

Korea. Toxic Chemical : On the inventory, or in compliance with the inventory
Control Law (TCCL) List

Philippines. The Toxic : On the inventory, or in compliance with the inventory
Substances and Hazardous
and Nuclear Waste Control
Act

China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances

NZIOC - New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

US. EPA CERCLA : The following component(s) of this product is/are subject to
Hazardous Substances (40 : release reporting under 40 CFR 302 when release exceeds the
CFR 302) Reportable Quantity (RQ):

Reportable quantity: 100 lbs
: Hydrogen fluoride 7664-39-3

SARA 302 Components : The following components are subject to reporting levels
established by SARA Title III, Section 302:
: Hydrofluoric acid 7664-39-3

SARA 313 Components : The following components are subject to reporting levels
established by SARA Title III, Section 313:
: Hydrofluoric acid 7664-39-3

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

CERCLA Reportable : 143 lbs
Quantity

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California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Hydrofluoric acid 7664-39-3

New Jersey RTK : Hydrofluoric acid 7664-39-3

Pennsylvania RTK : Hydrofluoric acid 7664-39-3

WHMIS Classification : D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects
D2A: Very Toxic Material Causing Other Toxic Effects
E: Corrosive Material
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 4*	4
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any

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1600 South Wilson Ave
Dunn, North Carolina 28334
(910) 980-1088

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material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 11/06/2015

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NITRIC ACID 42° BAUMÉ

Version 1.3

Revision Date: 08/02/2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NITRIC ACID 42° BAUMÉ

Recommended use of the chemical and restrictions on use

Recommended use : Industrial chemical

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
 Downers Grove, IL 60515
 United States of America (USA)

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)
 CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
 E-mail: SDSNA@univarsolutions.com
 SDS Requests: 1-855-429-2661
 Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing liquids : Category 3
 Corrosive to metals : Category 1
 Acute toxicity (Inhalation) : Category 3
 Skin corrosion : Category 1A
 Serious eye damage : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.
 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H331 Toxic if inhaled.

Precautionary statements : **Prevention:**
 P210 Keep away from heat.
 P220 Keep/ Store away from clothing/ combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.

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P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
7697-37-2	Nitric acid	50 - 70

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

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If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. Move to fresh air.
In case of skin contact	: Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes. Wash contaminated clothing before re-use. Thoroughly clean shoes before reuse.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Take victim immediately to hospital.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Foam Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Nitrogen oxides (NO _x)
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

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Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from combustible material.

Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type	Control parameter	Basis
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		(Form of exposure)	ters / Permissible concentration	
7697-37-2	Nitric acid	TWA	2 ppm	ACGIH
		STEL	4 ppm	ACGIH
		ST	4 ppm 10 mg/m3	NIOSH REL
		TWA	2 ppm 5 mg/m3	NIOSH REL
		TWA	2 ppm 5 mg/m3	OSHA Z-1
		TWA	2 ppm 5 mg/m3	OSHA P0
		STEL	4 ppm 10 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Colour	: Clear, Colorless, light yellow, brown
Odour	: pungent, Acrid
Odour Threshold	: 0.75 - 2.5 ppm
pH	: < 1
Freezing Point (Freezing Point)	: -41 - -20 °C (-42 - -4 °F)
Boiling Point (Boiling point/boiling range)	: 117 - 120 °C (243 - 248 °F)
Flash point	: Not applicable
Evaporation rate	: 1 (Butyl Acetate = 1)
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 7 - 8 mmHg @ 20 °C (68 °F) 9 - 10 mmHg @ 25 °C (77 °F)
Relative vapour density	: > 1(Air = 1.0)
Relative density	: 1.3551 - 1.4078 @ 20 - 25 °C (68 - 77 °F) Reference substance: (water = 1)
Density	: 1.35 - 1.48 g/cm ³ @ 20 °C (68 °F)
Solubility(ies) Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: -2.3
Auto-ignition temperature	: No data available
Thermal decomposition	: 110 °C
Viscosity Viscosity, dynamic	: 2 - 2.2 cps @ 20 - 25 °C (68 - 77 °F)

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Corrosive in contact with metals Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Exposure to light. Exposure to moisture
Incompatible materials	: Acetic anhydride Alcohols Alkali metals Bases carbide Carbon steel chlorates Chromic acid Combustible material Copper Cyanides Metals Organic materials Reducing agents sulfides water halogens
Hazardous decomposition products	: corrosive vapors Nitrogen oxides (NO _x) Ammonia Amines

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

Components:

7697-37-2:

Acute inhalation toxicity : LC50 (Rat, male and female): 2500 ppm
Exposure time: 1 h
Test substance: nitric acid
Assessment: The component/mixture is toxic after short term

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inhalation.

Skin corrosion/irritation**Product:**

Remarks: Extremely corrosive and destructive to tissue.

Components:**7697-37-2:**

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation**Product:**

Remarks: May cause irreversible eye damage.

Components:**7697-37-2:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**DOT (Department of Transportation):**

UN2031, NITRIC ACID SOLUTION, 8 (5.1), II

IATA (International Air Transport Association):

UN2031, NITRIC ACID SOLUTION, 8 (5.1), II

SECTION 15. REGULATORY INFORMATION

Safety Data Sheet

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WHMIS Classification : E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Nitric acid	7697-37-2	1000	1429

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Nitric acid	7697-37-2	1000	1429

SARA 311/312 Hazards : Oxidiser (liquid, solid or gas)
Corrosive to metals
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

7697-37-2 Nitric acid

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

7697-37-2 Nitric acid

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

7697-37-2 Nitric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

7697-37-2 Nitric acid

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

7697-37-2 Nitric acid 50 - 70 %

Pennsylvania Right To Know

7697-37-2 Nitric acid 50 - 70 %

New Jersey Right To Know

7697-37-2 Nitric acid 50 - 70 %

Safety Data Sheet

NITRIC ACID 42° BAUMÉ

Version 1.3

Revision Date: 08/02/2022

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

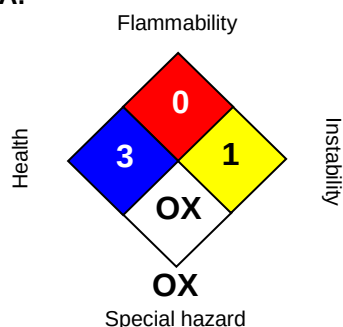
KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3/
FLAMMABILITY	1
PHYSICAL HAZARD	4

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 08/02/2022

Safety Data Sheet

NITRIC ACID 42° BAUMÉ

Version 1.3

Revision Date: 08/02/2022

Legacy SDS: : R0001000

Material number:

16159804, 16160140, 16187019, 16175675, 16175673, 16175480, 16175213, 16176867, 16185891, 16185890, 16177631, 16162257, 16140229, 16136928, 16150007, 16145038, 16140587, 16144871, 16149532, 16148905, 16158754, 16145161, 16148826, 16145685, 16160177, 16150182, 16147852, 16140512, 16141265, 16141308, 16142289, 16141518, 16141319, 16141751, 16108058, 16004379, 554152, 554100, 104817, 74151, 105771, 71415, 73143, 89530, 55952, 88705, 55029, 124379, 127750, 156545, 501224, 20223, 20222

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

Safety Data Sheet

Oakite 61B

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(30687385/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Oakite 61B

Recommended use of the chemical and restriction on use

Recommended use*: Detergents

Unsuitable for use: Uses other than recommended

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Chemetall U.S., Inc.

675 Central Avenue

New Providence, NJ 07974 – USA

+1 800 526-4473

sds.na-chemetall@basf.com

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 800-424-9300, +1-703-527-3887

Other means of identification

Chemical family: inorganic compounds, organic compounds

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Skin Corr./Irrit.

1

Skin corrosion/irritation

Eye Dam./Irrit.

1

Serious eye damage/eye irritation

STOT SE

3 (irritating to
respiratory system)

Specific target organ toxicity — single exposure

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Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing and eye protection or face protection.
P264 Wash contaminated body parts thoroughly after handling.
P260 Do not breathe dust or mist.

Precautionary Statements (Response):

P303 + P361 + P353 IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P310 Immediately call a POISON CENTER or physician.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

sodium carbonate

CAS Number: 497-19-8

Content (W/W): ≥ 25.0 - $< 50.0\%$

Synonym: Carbonic acid, disodium salt

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Silicic acid (H₂SiO₃), disodium salt
CAS Number: 6834-92-0
Content (W/W): >= 15.0 - < 20.0%
Synonym: Disodium metasilicate

Trisodium phosphate
CAS Number: 7601-54-9
Content (W/W): >= 5.0 - < 7.0%
Synonym: No data available.

Tetrasodium-pyrophosphate
CAS Number: 7722-88-5
Content (W/W): >= 5.0 - < 7.0%
Synonym: No data available.

Silicic acid, sodium salt
CAS Number: 1344-09-8
Content (W/W): >= 3.0 - < 5.0%
Synonym: Silicic acid sodium salt

Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate
CAS Number: 70851-08-0
Content (W/W): >= 1.0 - < 3.0%
Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

If on skin:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

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If swallowed:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: sodium carbonate

Symptoms: Overexposure may cause:; vomiting, circulatory collapse, death, diarrhea

Information on: Silicic acid, sodium salt

Symptoms: Overexposure may cause:; corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Silicic acid (H₂SiO₃), disodium salt

Symptoms: Overexposure may cause:; corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Trisodium phosphate

Symptoms: Overexposure may cause:; Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps, Inhalation may provoke the following symptoms:; irritation of respiratory tract, coughing

Information on: Tetrasodium-pyrophosphate

Symptoms: Overexposure may cause:; corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Hazards: Dusts may cause mechanical irritation to eyes. May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote:

No known specific antidote.

Treatment:

Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, phosphorus oxides

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Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Advice for fire-fighters

Protective equipment for fire-fighting:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not inhale dusts. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods and material for containment and cleaning up

Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Avoid dust formation. Protect against moisture. Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Protect against moisture. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

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8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), butyl rubber gloves - material thickness: 0.5 mm, nitrile rubber (NBR) - 0.4 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	solid
Odour:	odourless
Odour threshold:	No applicable information available.
Colour:	white
pH value:	11.5 - 12.5 (40 g/l)
Melting point:	not determined
Freezing point:	not determined
onset of boiling:	not determined
Boiling range:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Autoignition:	not applicable
Vapour pressure:	(20 °C) not determined
Relative density:	No applicable information available.

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Bulk density:	0.901 kg/m ³ (20 °C)
Vapour density:	No applicable information available.
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	(20 °C) not applicable
Solubility in water:	41 G/L
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	not applicable

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Dust can form an explosive mixture with air.

Conditions to avoid

Avoid dust formation. Avoid direct sunlight. Avoid humidity.

Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous decomposition products

Decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

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Assessment of acute toxicity: Based on available data, the classification criteria are not met.

Oral

Type of value: ATE

Value: 7,576 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: ATE

Value: > 20 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Information on: sodium carbonate

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Information on: Silicic acid, sodium salt

Assessment of irritating effects: Corrosive! Damages skin and eyes. Causes temporary irritation of the respiratory tract.

Information on: Silicic acid (H₂SiO₃), disodium salt

Assessment of irritating effects: Corrosive! Damages skin and eyes. Causes temporary irritation of the respiratory tract.

Information on: Trisodium phosphate

Assessment of irritating effects: Skin contact causes irritation. Eye contact causes irritation.

Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

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Information on: Silicic acid, sodium salt

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Information on: Silicic acid (H₂SiO₃), disodium salt

Assessment of repeated dose toxicity: The substance may lead to shifts in blood composition following repeated exposure in animal experiments. Prolonged and repeated exposure may cause effects on the liver.

Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways.

Based on available data, the classification criteria are not met.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

No data available concerning biodegradation and elimination.

Bioaccumulative potential

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

No data available.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

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Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: III

ID number: UN 1759

Hazard label: 8

Proper shipping name: CORROSIVE SOLID, N.O.S. (contains disodium metasilicate)

Sea transport

IMDG

Hazard class: 8

Packing group: III

ID number: UN 1759

Hazard label: 8

Marine pollutant: NO

Proper shipping name: CORROSIVE SOLID, N.O.S. (contains disodium metasilicate)

Air transport

IATA/ICAO

Hazard class: 8

Packing group: III

ID number: UN 1759

Hazard label: 8

Proper shipping name: CORROSIVE SOLID, N.O.S. (contains disodium metasilicate)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

State regulations

State RTK

NJ

CAS Number

7558-79-4

7758-29-4

7722-88-5

PA

7558-79-4

7758-29-4

7601-54-9

7722-88-5

Chemical name

disodium hydrogen orthophosphate

Triphosphoric acid, pentasodium salt

Tetrasodium-pyrophosphate

disodium hydrogen orthophosphate

Triphosphoric acid, pentasodium salt

Trisodium phosphate

Tetrasodium-pyrophosphate

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NFPA Hazard codes:

Health: 3 Fire: 1 Reactivity: 1 Special:

HMIS III rating

Health: 3 Flammability: 1 Physical hazard: 1

16. Other Information

SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations

SDS Prepared on: 2022/12/09

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

Oakite® 160

Version 0.1

Revision Date 05/29/2015

Print Date 05/29/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Oakite® 160

Substance number : REL_1600

Chemical usage : Cleaning Compound, Metal etching.

Manufacturer or supplier's details

Company : Chemetall US, Inc.

Address : 675 Central Avenue
New Providence NJ 07974

Telephone : (800) 526-4473

Telefax : (908) 464-4658

Emergency telephone no : CHEMTREC - 800-424-9300, 1-703-527-3887 (International)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance	powder
Colour	white
Odour	none
Hazard Summary	Causes severe burns. Harmful if swallowed.

GHS Classification

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :  

Signal word : Danger

Hazard statements : Harmful in contact with skin.
Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**

Oakite® 160

Version 0.1

Revision Date 05/29/2015

Print Date 05/29/2015

Do not breathe dust or mist.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Inhalation	: no
Skin	: yes
Ingestion	: yes
Aggravated Medical Condition	: None known.

Carcinogenicity:**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

Oakite® 160

Version 0.1

Revision Date 05/29/2015

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Hazardous components

Component	CAS-No.	Weight percent
Sodium hydroxide	1310-73-2	70 - 90
Trade Secret Registry	735517-5122P	5 - 10

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.
If symptoms persist, call a physician.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Take off contaminated clothing and shoes immediately.
Get medical attention immediately if irritation develops and persists
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.
Keep eye wide open while rinsing.
Get medical attention immediately
- If swallowed : Rinse mouth.
Drink plenty of water.
Never give anything by mouth to an unconscious person.
Get medical attention immediately

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry chemical
Foam
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Material can create slippery conditions.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.
- Additional advice : Never return spills in original containers for re-use.

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SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Add this product to surface of solution slowly to avoid spattering
Do not add large amounts of product to solution at any one time.
Do not add to hot water warmer than 43 degrees to 49 degrees C (110 degrees to 120 degrees F).
Never add liquids to product
- Conditions for safe storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Store indoors in a cool, well-ventilated place
Protect from direct contact with water or excessive moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sodium hydroxide	1310-73-2	C	2.000000 mg/m3	ACGIH
		C	2.000000 mg/m3	NIOSH REL
		TWA	2.000000 mg/m3	OSHA Z-1
		C	2.000000 mg/m3	OSHA P0

Personal protective equipment

- Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.
- Hand protection
Remarks : Impervious gloves
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Rubber or plastic apron
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wear suitable gloves and eye/face protection.
Wear suitable protective clothing.
Wash hands before breaks and immediately after handling the product.
Provide adequate ventilation.
Avoid breathing dust or vapor.
Keep away from food and drink.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: white
Odour	: none
pH	: 13.5, Concentration: 40.00000 g/l
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
Evaporation rate	: GLP: No information available.
Upper explosion limit	: Not applicable.
Lower explosion limit	: Not applicable.
Vapour pressure	: no data available
Relative density	: not applicable
Bulk density	: 74.81 lb/ft ³
Solubility(ies)	
Water solubility	: 150.00000 g/l (77 °C)
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Exposure to moisture.
Incompatible materials	: Acids
Hazardous decomposition products	: Hydrogen, by reaction with metals

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

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Acute oral toxicity : Acute toxicity estimate : 4,223.000000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 10.000000 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 1,552.000000 mg/kg
Method: Calculation method

Components:**Sodium hydroxide:**

Acute oral toxicity : LD50 mouse: 6,600.000000 mg/kg

LD50 rat: 4,090.000000 mg/kg

Acute inhalation toxicity : LC50 mouse: 1,200.000000 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

LC50 rat: 2,300.000000 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 rabbit: 1,350.000000 mg/kg

Trade Secret Registry:

Acute oral toxicity : LD50 rat: 4,090.000000 mg/kg

LD50 mouse: 6,600.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 2.300000 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

LC50 mouse: 1.200000 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

Skin corrosion/irritation**Components:****Sodium hydroxide:**

Result: Corrosive

Serious eye damage/eye irritation**Components:****Sodium hydroxide:**

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Result: Corrosive
Classification: Corrosive

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

no data available

Bioaccumulative potential**Product:**

Partition coefficient: n-
octanol/water : Remarks: no data available

Other adverse effects

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION**International regulation**

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**SECTION 15. REGULATORY INFORMATION**

TSCA Status : All components of this material comply with US TSCA requirements.

OSHA Hazards : Combustible dust, Toxic by inhalation., Harmful by skin absorption., Corrosive to skin

WHMIS Classification : E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1,000	1,149

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations**Massachusetts Right To Know**

Sodium hydroxide 1310-73-2

Pennsylvania Right To Know

Sodium hydroxide 1310-73-2
Trade Secret Registry 735517-5122P
Trade Secret Registry 735517-5145P

New Jersey Right To Know

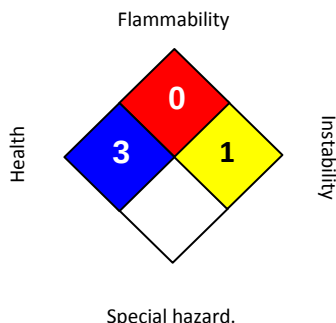
Sodium hydroxide 1310-73-2
Trade Secret Registry 735517-5122P
Trade Secret Registry 735517-5145P

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NFPA:**HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Corrosive Alkaline

Safety Glasses, Gloves, Apron, Dust
Respirator**SECTION 16. OTHER INFORMATION****Further information**

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SAFETY DATA SHEET



1. IDENTIFICATION

Product Name: **Caustic 25%**
Synonyms: Sodium hydroxide, caustic soda, caustic alkali, liquid caustic, lye, sodium hydrate, NaOH
CAS Number: 1310-73-2
Product Use: Neutralizing agent, industrial cleaning, pulping & bleaching, soap & detergent manufacturing.

Manufacturer/Supplier: Slack Chemical Co., Inc
 465 South Clinton St.
 Carthage, NY 13619
 800.479.0430

Transportation Emergency Number: CHEMTREC: 800.424.9300

2. HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards	Corrosive to metals	Category 1
Health Hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1
	Eye damage/irritation	Category 1
Environmental Hazards	Hazardous to aquatic environment, acute	Category 3

GHS Label Elements

Signal Word: **DANGER!**

Hazard Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H402	Harmful to aquatic life.

Precautionary Statements

P234	Keep only in original packaging.
P260	Do not breathe dusts or mists.

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P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301/330/331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301/312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303/361/353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
P304/340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P321	Specific treatment (see first aid section).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material-damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Sodium Hydroxide	1310-73-2	25

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Skin: Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemical powder or carbon dioxide. Use extinguishing agent suitable for type of surrounding fire. DO NOT use solid water stream as it may scatter and spread fire. DO NOT use halogenated extinguishing agents.

Fire Fighting Procedures: Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs,

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arms, and waist, should be worn. No skin surface should be exposed. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Unusual Fire and Explosion Hazards: May decompose upon heating to produce corrosive and/or toxic fumes. Contact with metal may release flammable hydrogen gas.

Combustion Products: The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

Methods and Materials for Containment and Cleaning Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water. Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Use caution when combining with water; DO NOT add water to caustic; ALWAYS add caustic to water while stirring to minimize heat generation. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible and corrosion resistant. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including Any Incompatibilities: Keep container tightly closed. Store in a cool, dry and well-ventilated place. Store in corrosive resistant container. Store away from incompatible materials. Compatible storage materials may include, but not be limited to, the following: nickel and nickel alloys, steel, plastics, plastic or rubber-lined steel, FRP, or Derakane vinyl ester resin. Do not allow material to freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	OSHA PEL-TWA	ACGIH TLV-TWA
Sodium Hydroxide (CAS 1310-73-2)	2 mg/m ³	2 mg/m ³ (Ceiling)

Engineering Controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Personal Protective Equipment (PPE)

Eye/Face Protection: Wear chemical goggles and face shield.

Skin Protection: Wear appropriate chemical resistant gloves and clothing.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits or to an acceptable level, an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge and full face-piece.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid, clear-sl. turbid, colorless
Odor	Odorless
Odor threshold	Not available.
pH	14
Melting/freezing point	-18°C (0°F)
Boiling point	111°C (232°F)
Flash point	Not applicable
Evaporation rate	Not available
Flammability	Not applicable
Upper/lower flammability limits	Not applicable
Vapor pressure	24 mmHg (25°C) [50% solution]
Vapor density	Not available
Relative density	1.27
Solubility	100% (water)
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Viscosity	8 cP (20°C)

10. STABILITY AND REACTIVITY

Reactivity: Contact with metal may release flammable hydrogen gas.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 40°C (104°F).

Incompatible Materials: Oxidizing agents, acids, phosphorus, aluminum, zinc and tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.

Hazardous Decomposition Products: Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Ingestion: Causes digestive tract burns. Harmful if swallowed.

Inhalation: May cause irritation to the respiratory system.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes severe eye burns and serious eye damage.

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result.

Acute Toxicity Values:

Component	Route	Species	Value
Sodium Hydroxide (CAS 1310-73-2)	Dermal LD ₅₀	Rabbit	> 2 g/kg
	Oral LD ₅₀	Rat	300 – 500 mg/kg

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Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye burns and serious eye damage.

Respiratory or Skin Sensitization: Not available.

Germ Cell Mutagenicity: Not available.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity: Not available.

Specific Target Organ Toxicity (STOT) – Single Exposure: Not available.

Specific Target Organ Toxicity (STOT) – Repeated Exposure: Not available.

Aspiration Hazard: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Component	Species	Value	
Sodium Hydroxide (CAS 1310-73-2)	Brook trout (<i>Salvelinus fontinalis</i>)	25 mg/L	(LC ₅₀ -NR)
	Water flea (<i>Ceriodaphnia dubia</i>)	40.4 mg/L	(EC ₅₀ -48 hr)

Persistence/Degradability: Expected to degrade rapidly in air.

Bioaccumulation: The product is not expected to bioaccumulate.

Soil Mobility: Not available.

Other Adverse Effects: No other adverse environmental effects are expected from this component.

13. DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container may need to be disposed of as hazardous waste. Do not allow this material to drain into sewers or water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents and container in accordance with local, regional, national and/or international regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

UN/NA Number:	UN 1824
Proper Shipping Name:	Sodium hydroxide solution
Hazard Class:	8
Packing Group:	PG II
Marine Pollutant:	No
Labels Required:	Corrosive
Reportable Quantity:	1,000 lb

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15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants:

Sodium Hydroxide (CAS 1310-73-2) – No

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention 40 CFR 68.130:

Sodium Hydroxide (CAS 1310-73-2) – No

Clean Water Act (CWA) 40 CFR 401.15:

Sodium Hydroxide (CAS 1310-73-2) – No

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 40 CFR 302.4:

Sodium Hydroxide (CAS 1310-73-2) – Yes

SARA Section 302 Extremely Hazardous Substance 40 CFR 355:

Sodium Hydroxide (CAS 1310-73-2) – No

SARA Section 311/312 40 CFR 370:

Sodium Hydroxide (CAS 1310-73-2) – Yes

SARA Section 313 40 CFR 372:

Sodium Hydroxide (CAS 1310-73-2) – No

Toxic Substances Control Act (TSCA):

Sodium Hydroxide (CAS 1310-73-2) – Yes

Canadian Environmental Protection Act, Domestic Substance List (CEPA-DSL):

Sodium Hydroxide (CAS 1310-73-2) – Yes

California Proposition 65:

Sodium Hydroxide (CAS 1310-73-2) – No

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):

Not applicable

16. OTHER INFORMATION

HMIS RATINGS

Health	3
Flammability	0
Reactivity	1

NFPA RATINGS

Health	3
Flammability	0
Reactivity	1

Disclaimer

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Safety Data Sheet
SULFURIC ACID

Version 1.1

Revision Date: 09/01/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product name** : SULFURIC ACID**Recommended use of the chemical and restrictions on use**

Recommended use : industrial chemical

Manufacturer or supplier's details**Company** : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)**Emergency telephone number:**Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887**Additional Information:** : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

CAS-No.	Chemical name	Weight percent
7664-93-9	Sulfuric acid	50 - 70

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.

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Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : sulfur oxides
Gases hazardous to health may be formed.
Sulphuric acid
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.

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Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7664-93-9	Sulfuric acid	TWA (Thoracic fraction)	0.2 mg/m ³	ACGIH
		TWA	1 mg/m ³	NIOSH REL
		TWA	1 mg/m ³	OSHA Z-1
		TWA	1 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration.

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tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless, cloudy
Odour	: odourless
Odour Threshold	: No data available
pH	: < 1.0
Freezing Point (Freezing Point)	: 3 °C (37 °F)
Boiling Point (Boiling point/boiling range)	: 329.44 °C (624.99 °F)
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 1.0 mmHg @ 20 °C (68 °F)
Relative vapour density	: 3.4(Air = 1.0)
Relative density	: 1.403 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: No data available
Solubility(ies) Water solubility	: completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available

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Version 1.1

Revision Date: 09/01/2019

Thermal decomposition : 340 °C

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : acetylenes
Acids
Ammonia
Combustible material
Flammable materials
Metals
nitrates
Nitriles
nitrites
Organic materials
Oxidizing agents
phosphorus
Powdered metals
Reducing agents
water
Peroxides

SECTION 11. TOXICOLOGICAL INFORMATION**Skin corrosion/irritation****Product:**

Remarks: Extremely corrosive and destructive to tissue.

Components:**7664-93-9:**

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation**Product:**

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Remarks: May cause irreversible eye damage.

Components:**7664-93-9:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Germ cell mutagenicity**Components:****7664-93-9:**

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity**IARC**

Group 1: Carcinogenic to humans

7664-93-9

Sulfuric acid

Group 1: Carcinogenic to humans

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogen

7664-93-9

Sulfuric acid

Known to be human carcinogen

ACGIH

Suspected human carcinogen

7664-93-9

Sulfuric acid

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN2796, Sulfuric acid, 8, II

IATA (International Air Transport Association):

UN2796, SULPHURIC ACID, 8, II

IMDG (International Maritime Dangerous Goods):

UN2796, SULPHURIC ACID, 8, II

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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric acid	7664-93-9	1000	2000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric acid	7664-93-9	1000	2000

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

7664-93-9 Sulfuric acid

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

7664-93-9 Sulfuric acid

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

7664-93-9 Sulfuric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

7664-93-9 Sulfuric acid

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

7664-93-9 Sulfuric acid

Pennsylvania Right To Know

7664-93-9 Sulfuric acid

7732-18-5 Water

California Prop 65

 **WARNING:** This product can expose you to chemicals including Sulfuric acid, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Safety Data Sheet

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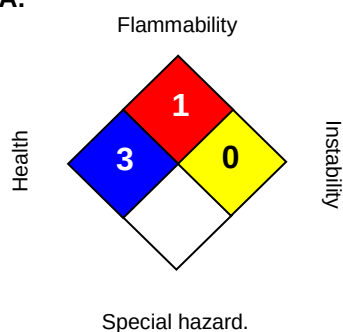
Revision Date: 09/01/2019

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 09/01/2019

Legacy SDS: : R0017947

Material number:

16125824, 16114349, 696270, 74735, 59641

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals

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SULFURIC ACID

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Revision Date: 09/01/2019

EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

 Ducommun		Work Instruction: WI-00237 RCRA Contingency Plan - EMS	
Coxsackie, New York	Last Reviewed Date: 10/24/23	Revision No.: D	Page: 33 of 33

Spine

WI-00237 RCRA Contingency Plan
Ducommun AeroStructures New York
Coxsackie, NY

Attachment 09

Emergency Responders Receipts

McCoy, Mary

From: Shawn Burdick - Village of Coxsackie <firechief@villageofcoxsackie.com>
Sent: Tuesday, January 24, 2023 10:44 AM
To: McCoy, Mary
Subject: Re: Site Visit

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

See you February 1 at 6:30pm

Chief Shawn Burdick
Firechief@villageofcoxsackie.com
(518)-242-0032

On Jan 24, 2023, at 10:40 AM, McCoy, Mary <MMcCoy@ducommun.com> wrote:



This email comes from outside the organization.

Do not click links or open attachments unless it is an email you expected to receive.

February 1?

M

Mary A. McCoy, PE
203.300.7303 cell

From: Shawn Burdick - Village of Coxsackie [mailto:firechief@villageofcoxsackie.com]
Sent: Tuesday, January 24, 2023 10:39 AM
To: McCoy, Mary <MMcCoy@ducommun.com>
Subject: Re: Site Visit

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

We already have Wednesday scheduled. It will have to be another day

Chief Shawn Burdick
Firechief@villageofcoxsackie.com
(518)-242-0032

On Jan 24, 2023, at 7:51 AM, McCoy, Mary <MMcCoy@ducommun.com> wrote:



This email comes from outside the organization.

Do not click links or open attachments unless it is an email you expected to receive.

Great! See you then.

M

Mary A. McCoy, PE
203.300.7303 cell

From: Shawn Burdick - Village of Cocksackie [<mailto:firechief@villageofcocksackie.com>]
Sent: Tuesday, January 24, 2023 7:34 AM
To: McCoy, Mary <MMcCoy@ducommun.com>
Cc: Buccino, Charles <CBuccino@ducommun.com>; Roque, Gregory <GRoque@ducommun.com>
Subject: Re: Site Visit

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We already have something scheduled this Wednesday.

Chief Shawn Burdick
Firechief@villageofcocksackie.com
(518)-242-0032

On Jan 24, 2023, at 7:11 AM, McCoy, Mary
<MMcCoy@ducommun.com> wrote:



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Hi Shawn,

Does this time still work for you?

M

Mary A. McCoy, PE
203.300.7303 cell

From: McCoy, Mary
Sent: Friday, January 20, 2023 1:36 PM
To: Shawn Burdick - Village of Cocksackie
<firechief@villageofcoxsackie.com>
Cc: Buccino, Charles <CBuccino@ducommun.com>; Roque, Gregory
<GRoque@ducommun.com>
Subject: RE: Site Visit

How about January 25, Wednesday, at 6:30 pm?

M

Mary A. McCoy, PE
203.300.7303 cell

From: McCoy, Mary
Sent: Friday, January 20, 2023 8:50 AM
To: Shawn Burdick - Village of Cocksackie
<firechief@villageofcoxsackie.com>
Subject: RE: Site Visit

No worries. Let me find out.

M

Mary A. McCoy, PE
203.300.7303 cell

From: Shawn Burdick - Village of Cocksackie
[<mailto:firechief@villageofcoxsackie.com>]
Sent: Wednesday, January 18, 2023 4:44 PM
To: McCoy, Mary <MMcCoy@ducommun.com>
Subject: Re: Site Visit

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

When we did site visits in the past they have been on Wednesday evenings at 6:30pm, will this work? Sorry it took so long to reply it's been a busy week.

Chief Shawn Burdick
Firechief@villageofcoxsackie.com

On Jan 13, 2023, at 2:08 PM, McCoy, Mary
<MMcCoy@ducommun.com> wrote:



This email comes from outside the organization.

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Greetings,

My name is Mary McCoy, and I'm the new EHS Manager at Ducommun here in Cossackie.

I'd like to invite your team for a visit of our site and to discuss a few things.

Are you available on any Friday after 2 pm?

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.

171 Stacey Road
Cossackie, NY 12051-2613
203.300.7303 cell
518.731.4650 office

mmccoy@ducommun.com

www.ducommun.com

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McCoy, Mary

Subject: Fire Department Visit
Location: Cocksackie Welcome Conference Room

Start: Wed 2/1/2023 6:30 PM
End: Wed 2/1/2023 8:30 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: McCoy, Mary
Required Attendees: Buccino, Charles; Shawn Burdick - Village of Cocksackie
Optional Attendees: Roque, Gregory
Resources: Cocksackie Welcome Conference Room

Fire Department site visit.

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.
171 Stacey Road
Cocksackie, NY 12051-2613
203.300.7303 cell
518.731.4650 office
mmccoy@ducommun.com
www.ducommun.com

McCoy, Mary

From: McCoy, Mary
Sent: Friday, October 27, 2023 1:13 PM
To: Shawn Burdick - Village of Cocksackie
Subject: RE: Contingency Plan

Hi Sawn,

Did you receive this message, which I sent yesterday? I wanted to check to make sure the files weren't too big.

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSsupportNY@ducommun.com

From: McCoy, Mary
Sent: Thursday, October 26, 2023 9:48 AM
To: Shawn Burdick - Village of Cocksackie <firechief@villageofcocksackie.com>
Subject: Contingency Plan

Hi Shawn,

I've attached a RCRA Contingency Plan, which we are supposed to submit to you as per 40 CFR 262.262(a) and (b). These are two addresses that are listed in the plan. Are these the same organization?

Cocksackie Fire Department
119 Mansion Street
Cocksackie, NY 12051

Cocksackie Hose Company #3
P.O. Box 303
Cocksackie, NY 12051

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.
171 Stacey Road
Cocksackie, NY 12051-2613
203.300.7303 cell
518.731.4650 office

mmccoy@ducommun.com
www.ducommun.com

Safety Suggestions: EHSsupportNY@ducommun.com

McCoy, Mary

From: OEM, SERC (DHSES) <SERC.OEM@dhses.ny.gov>
Sent: Thursday, October 26, 2023 11:39 AM
To: McCoy, Mary
Subject: RE: Ducommun AeroStructures NY: RCRA Contingency Plan

Categories: Saved to network drive

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Good morning Mary,

The New York State Emergency Response Commission (NYS SERC) is in receipt of your Hazardous Waste Contingency Plan for Ducommun AeroStructures NY, located in Cocksackie, NY. If you have any questions please let me know.

Thank you,

Cynthia Zobel
OEM Planning
NYS Division of Homeland Security & Emergency Services
1220 Washington Avenue, Bldg 22 Albany, NY 12242
518-292-2353 Landline
cynthia.zobel@dhses.ny.gov

From: McCoy, Mary <MMcCoy@ducommun.com>
Sent: Thursday, October 26, 2023 10:35 AM
To: OEM, SERC (DHSES) <SERC.OEM@dhses.ny.gov>
Subject: Ducommun AeroStructures NY: RCRA Contingency Plan

You don't often get email from mmccoy@ducommun.com. [Learn why this is important](#)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Greetings,

As a large quantity generator of RCRA hazardous waste, Ducommun AeroStructures Inc. of Cocksackie, New York, (DAS NY) is submitting the enclosed RCRA Contingency Plan and Quick Reference Guide to you as per Title 40 of the Code of Regulations §262.262(a) and (b).

Please acknowledge receipt.

If you have questions or comments, please contact me at (203) 300-7303 or mmccoy@ducommun.com.

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.

171 Stacey Road
Coxsackie, NY 12051-2613
203.300.7303 cell
518.731.4650 office

mmccoy@ducommun.com

www.ducommun.com

Safety Suggestions: EHSSupportNY@ducommun.com

From: NY.StateWatchCenter@dhses.ny.gov <NY.StateWatchCenter@dhses.ny.gov>

Sent: Thursday, October 26, 2023 10:16 AM

To: NY.StateWatchCenter@dhses.ny.gov

Subject: RCRA Contingency Plan

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NYSWC receives, thank you

New York State Watch Center
Office of Emergency Management

Division of Homeland Security and Emergency Services

1220 Washington Ave, Building 22, Albany NY 12226

(518) 292-2200 | 5183224982@fax.ny.gov | NY.StateWatchCenter@dhses.ny.gov

www.dhses.ny.gov

This message was sent to the following:

MMcCoy@ducommun.com

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McCoy, Mary

From: O'Rourke, Danielle <orourkd@amc.edu>
Sent: Friday, October 27, 2023 2:10 PM
To: McCoy, Mary
Subject: RE: RCRA Contingency Plan

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Yes, I did, I apologize for the delayed response . I have sent it to our clinical management team for review.

Danielle O'Rourke
Occupational Medicine Coordinator
Albany Med EmUrgentCare - Administration
1275 Broadway, MC-42, Menands, NY 12204
P:518-264-5598
F: 518-731-9119
orourkd@amc.edu
Pronouns: She/Her/Hers
Mon-Thurs 7:30-6



From: McCoy, Mary <MMcCoy@ducommun.com>
Sent: Friday, October 27, 2023 1:16 PM
To: Rogers, Alyssa <rogersa1@amc.edu>; O'Rourke, Danielle <orourkd@amc.edu>
Subject: RE: RCRA Contingency Plan

This Message Is From an External Sender

This message came from outside your organization.

Report Suspicious

Greetings,

I was wondering if you received the email below yesterday. I want to make sure the attachment wasn't too big.

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: McCoy, Mary
Sent: Thursday, October 26, 2023 9:50 AM
To: Rogers, Alyssa <rogersa1@amc.edu>; O'Rourke, Danielle <orourkd@amc.edu>
Subject: RCRA Contingency Plan

Greetings,

I've attached a RCRA Contingency Plan, which we are supposed to submit to you as per 40 CFR 262.262(a) and (b). Would you please forward to the correct department and acknowledge receipt.

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.

171 Stacey Road
Coxsackie, NY 12051-2613
203.300.7303 cell
518.731.4650 office

mmccoy@ducommun.com
www.ducommun.com

Safety Suggestions: EHSSupportNY@ducommun.com

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McCoy, Mary

From: McCoy, Mary
Sent: Tuesday, June 11, 2024 11:09 AM
To: Zach Saccoccie
Subject: RE: Site Walk Through

Hi Zach,

I'll go ahead and take this off the schedule for June 12 for planning purposes.

We are available any evening except the weeks of

- June 24 through June 28
- July 22 through July 26

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: McCoy, Mary
Sent: Monday, June 10, 2024 10:05 AM
To: Zach Saccoccie <coxsackie3captain@gmail.com>
Subject: RE: Site Walk Through

No worries.

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: Zach Saccoccie <coxsackie3captain@gmail.com>
Sent: Monday, June 10, 2024 10:13 AM
To: McCoy, Mary <MMcCoy@ducommun.com>
Subject: Re: Site Walk Through

This Message Is From an External Sender

This message came from outside your organization.

Mary the county just appointed a new haz-mat team chief. I have reached out to him in regards to joining us for the walk through. Once I hear back I will let you know so we can set a date. sorry this is taking so long to get set up.

Thanks Capt Saccoccie

On Wed, May 22, 2024 at 6:54 PM McCoy, Mary <MMcCoy@ducommun.com> wrote:

Hi Zach,

No worries. Does June 12 at 6 pm work for you all?

M

Mary A. McCoy, PE

203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: Zach Saccoccie <coxsackie3captain@gmail.com>

Sent: Wednesday, May 22, 2024 11:54 AM

To: McCoy, Mary <MMcCoy@ducommun.com>

Subject: Site Walk Through

This Message Is From an External Sender

This message came from outside your organization.

Good Morning Mary,

Sorry I'm just getting back to you. The month has been extremely busy. We would definitely like to schedule a visit with you guys. I see you'd like to have the Haz-Mat team there as well. Let me reach out to the team and see if they are available. From there we can schedule a date if this works for you?

--

Coxsackie Hose Co#3
Saccoccie
(518)626-1250

Captain Zach
Coxsackie3captain@gmail.com

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McCoy, Mary

From: Collette, Gregg <gregg.collette@veolia.com>
Sent: Wednesday, December 13, 2023 2:07 PM
To: McCoy, Mary
Cc: Cathy McNamara; Rice, Renee; Zeh, Gary
Subject: Re: Veolia Emergency Response Services

Categories: Saved to network drive

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Confirming receipt.

Gregg Collette -PM
Veolia
Gregg.collette@veolia.com
508-683/9823 cell phone

On Tue, Dec 12, 2023 at 9:57 AM McCoy, Mary <MMcCoy@ducommun.com> wrote:

Hi Gregg,

I've attached a RCRA Contingency Plan, which we are required to submit to you as per 6 CRR-NY 373-3.3(g) AND 373.4. Would you kindly acknowledge receipt?

Let me know if you have questions or comments.

M

Mary A. McCoy, PE

203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: Zeh, Gary <gary.zeh@veolia.com>
Sent: Tuesday, December 12, 2023 7:25 AM
To: McCoy, Mary <MMcCoy@ducommun.com>
Cc: Rice, Renee <renee.rice@veolia.com>; Barley, Linda <LBarley@ducommun.com>; Gregg Collette <gregg.collette@veolia.com>; Cathy McNamara <cathy.mcnamara@veolia.com>
Subject: Re: Veolia Emergency Response Services

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hi Mary,

I'm adding Gregg Collette who is our Industrial Project Manager and would be your contact for Emergency Services and questions.

Also adding Cathy McNamara who is our/your Account Manager and would be able to answer any questions about the Agreement or your Account.

Thanks.

On Mon, 11 Dec 2023 at 17:11, McCoy, Mary <MMcCoy@ducommun.com> wrote:

Greetings,

Do you folks know who our contact is for emergency response services? I'd like to send them/you all a copy of our Contingency Plan.

Also, is there an expiration date on this agreement?

Mary A. McCoy, PE

EHS Manager

Ducommun AeroStructures New York, Inc.

171 Stacey Road

Coxsackie, NY 12051-2613

203.300.7303 cell

518.731.4650 office

mmccoy@ducommun.com

www.ducommun.com

Safety Suggestions: EHSSupportNY@ducommun.com

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--

Gary Zeh

Operations Manager II - NY

Industrial Business

VEOLIA NORTH AMERICA

tel

+1 518.389.4498

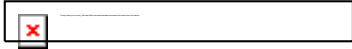
cell +1 518.419.4796 (preferred)

efax +1 518.704.6959

3 Northway Lane, Latham, NY 12110

gary.zeh@veolia.com

www.veolianorthamerica.com



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McCoy, Mary

From: Brianne Lee <blee@greenesheriffny.com>
Sent: Tuesday, December 12, 2023 8:21 AM
To: McCoy, Mary; Sheriff
Subject: RE: Ducommun AeroStructures NY: RCRA Contingency Plan

Categories: Saved to network drive

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Hi Mary,
We have received this. Thank you!

Brianne Lee
Confidential Secretary
to Sheriff Peter J. Kusminsky
Greene County Sheriff's Office
45 Haverly Memorial Drive
Coxsackie, N.Y. 12051
518-943-3300 x501
blee@greenesheriffny.com

From: McCoy, Mary <MMcCoy@ducommun.com>
Sent: Monday, December 11, 2023 4:38 PM
To: Sheriff <sheriff@greenesheriffny.com>
Subject: Ducommun AeroStructures NY: RCRA Contingency Plan

Greetings,

I've attached a RCRA Contingency Plan, which we are required to submit to you as per 6 CRR-NY 373-3.3(g) AND 373.4. Would you please acknowledge receipt?

Let me know if you have questions or comments.

Mary A. McCoy, PE
EHS Manager

Ducommun AeroStructures New York, Inc.
171 Stacey Road
Coxsackie, NY 12051-2613

203.300.7303 cell
518.731.4650 office
mmccoy@ducommun.com
www.ducommun.com

Safety Suggestions: EHSSupportNY@ducommun.com

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SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☒ <i>Michelle Zink</i> ☐ Agent ☐ Addressee	
1. Article Addressed to: St. Peter's Hospital 315 South Manning Blvd. Albany, NY 12208		B. Received by (Printed Name) _____ C. Date of Delivery _____	
2. Article Addressed to: St. Peter's Hospital 315 South Manning Blvd. Albany, NY 12208		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery		☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
4. Article Number (Transfer from service label) 7015 1520 0000 7119 2366		Insured Mail Insured Mail Restricted Delivery (over \$500)	
PS Form 3811, July 2020 PSN 7530-02-000-9053		Domestic Return Receipt	

USPS TRACKING#



9590 9402 8026 2305 5976 52

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box*

Ducommun
171 Stacey Road
Coxsackie, NY 12051-2613

MM

RECEIVED
NOV 24 2023

Attachment 9 Page 22 of 29

51-261371

BY: *KM*

ALERT: SEVERE WEATHER CONDITIONS ACROSS THE U.S. MAY DELAY FINAL DELIVERY OF Y...

USPS Tracking®

FAQs >

Tracking Number:

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70151520000071192366

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Latest Update

Your item was picked up at a postal facility at 9:17 am on October 31, 2023 in ALBANY, NY 12206.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Delivered, Individual Picked Up at Postal Facility

ALBANY, NY 12206

October 31, 2023, 9:17 am

See All Tracking History

Feedback

[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package) (<https://faq.usps.com/s/article/Where-is-my-package>)

Text & Email Updates



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Product Information



See Less ^

Tracking Number:

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70151520000071192397

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Latest Update

Your item was delivered to an individual at the address at 10:45 am on November 6, 2023 in CAIRO, NY 12413.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Delivered, Left with Individual

CAIRO, NY 12413

November 6, 2023, 10:45 am

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

[See More](#) ✓

Tracking Number:

[Remove](#) ✕

70151520000071192380

[Copy](#)[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your item was picked up at the post office at 9:13 am on October 31, 2023 in HUDSON, NY 12534.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Delivered, Individual Picked Up at Post Office

HUDSON, NY 12534

October 31, 2023, 9:13 am

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

[See More](#) ✓

Attachment 9 Page 24 of 29

Tracking Number:

Remove X

70151520000071192373

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Latest Update

Your item was picked up at the post office at 3:47 pm on November 6, 2023 in EARLTON, NY 12058.

Get More Out of USPS Tracking:**USPS Tracking Plus®**

Delivered

Delivered, Individual Picked Up at Post Office

EARLTON, NY 12058

November 6, 2023, 3:47 pm

[See All Tracking History](#)[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package) (<https://faq.usps.com/s/article/Where-is-my-package>)**See More** ▼

Tracking Number:

Remove X

70151520000071192359

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Latest Update

Your item was delivered to an individual at the address at 11:48 am on November 1, 2023 in SOUTH CAIRO, NY 12482.

Get More Out of USPS Tracking:**USPS Tracking Plus®**

Delivered**Delivered, Left with Individual**

SOUTH CAIRO, NY 12482

November 1, 2023, 11:48 am

[See All Tracking History](#)[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)**Text & Email Updates****USPS Tracking Plus®****Product Information****See Less**

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

McCoy, Mary

From: Sam Mento - Village of Cossackie PD <smento@villageofcoxsackiepolice.com>
Sent: Monday, December 11, 2023 6:55 PM
To: McCoy, Mary
Subject: Re: RCRA Contingency Plan

Categories: Saved to network drive

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Good Evening Mary,

Thank you for reaching out, yes I did receive the file.

Thank you,

*Chief Samuel Mento
Cossackie Police Department
119 Mansion Street, Cossackie N.Y. 12051
PD (518) 731-8122, Fax (518) 731-2508 Cell (518) 915-5677*



From: McCoy, Mary <MMcCoy@ducommun.com>
Sent: Monday, December 11, 2023 4:34 PM
To: Sam Mento - Village of Cossackie PD <smento@villageofcoxsackiepolice.com>
Subject: RE: RCRA Contingency Plan

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Do not click links or open attachments unless it is an email you expected to receive.

Hello Chief,

I sent a RCRA Contingency Plan back in October. I wasn't sure if you received it – it was a rather large file.

Did you receive it?

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: McCoy, Mary
Sent: Friday, October 27, 2023 3:23 PM
To: Sam Mento - Village of Cossackie PD <smento@villageofcoxsackiepolice.com>
Subject: RCRA Contingency Plan

Hi Chief Mento,

I've attached a RCRA Contingency Plan, which we are supposed to submit to you as per 40 CFR 262.262(a) and (b).

If you have any questions or comments, please contact me.

Would you kindly acknowledge receipt?

M

Mary A. McCoy, PE
203.300.7303 cell

Safety Suggestions: EHSSupportNY@ducommun.com

From: Sam Mento - Village of Cossackie PD <smento@villageofcoxsackiepolice.com>
Sent: Thursday, April 20, 2023 1:51 PM
To: McCoy, Mary <MMcCoy@ducommun.com>
Subject: Contingency Plan

This email originated from outside Ducommun. Hover your mouse over any link to verify it. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Good Afternoon, Mary

I received a message from Chief Burdick regarding a contingency plan for your company. The village of Cossackie Police Department is the responding agency for the village of Cossackie. If you require any further feel free to respond to this email.

Thank you,

*Chief Samuel Mento
Cossackie Police Department*

119 Mansion Street, Coxsackie N.Y. 12051

PD (518) 731-8122, Fax (518) 731-2508 Cell (518) 915-5677

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Attachment 10

Adhesives Sealant Waste Determination

	Form No.:	F-00663 Hazardous Waste Determination Worksheet -	
	Last Reviewed Date:	10/17/2023	Authorized By: WI-00216 Environmental Management System - Requirements
	Revision No.:	A	
	Coxsackie, New York		Page 1 of 2

DCO Site: Coxsackie **EPA ID:** NYR 000 219 550
171 Stacey Road
Coxsackie, NY 12051-2613

Date: 6/17/2024 **By:** Mary McCoy

Waste Stream Common Name: Adheaseive/sealant debris

Check one: **RCRA Haz Waste** ☐ **Non-RCRA Haz Waste** ☐ **Not Haz Waste** ☒

RCRA Waste Codes: NA
State Waste Codes: NA

Source Code: NA
Form Code: NA

Management Method:

(For California sites, if this waste is subject to 22 CCR 66266.1 and is not recycled, attach justification.)

UN#, Proper Shipping Name, Hazard Class, Packing Group:
NA

ERG: NA **RQ Threshold:** NA

Check one: **Ongoing** ☒ **Intermittent** ☐ **One-time** ☐

Other information:

Waste generation process (listed, characteristic); chemicals used; location within facility:



June 12, 2024

Mary McCoy
Ducommun Aerostructures
171 Stacy Road
Coxsackie, NY 12051

RE: Project: SEALANTS/ADHESIVE DEBRIS 5/24
Pace Project No.: 70299090

Dear Mary McCoy:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel H. Bonitto
daniel.bonitto@pacelabs.com
516-370-6000
Project Manager

Enclosures

cc: Linda Barley, Ducommun Aerostructures
Pedro Dumaua, Ducommun Aerostructures
Eugenia Lighthouse, Ducommun Incorporated



REPORT OF LABORATORY ANALYSIS

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Attachment 10 Page 2 of 17



CERTIFICATIONS

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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SAMPLE ANALYTE COUNT

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70299090001	24052301-MAM	EPA 6010D	JWT	7	PACE-MV
		EPA 7470A	JP2	1	PACE-MV
		EPA 8260C	BBL	13	PACE-MV
		ASTM D2216-05M	NAA	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville

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ANALYTICAL RESULTS

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

Sample: 24052301-MAM Lab ID: 70299090001 Collected: 05/23/24 07:00 Received: 05/24/24 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 05/28/24 23:28								
Pace Analytical Services - Melville								
Arsenic	<0.050	mg/L	0.050	1	05/30/24 07:07	05/30/24 12:17	7440-38-2	
Barium	<1.0	mg/L	1.0	1	05/30/24 07:07	05/30/24 12:17	7440-39-3	
Cadmium	0.014	mg/L	0.012	1	05/30/24 07:07	05/30/24 12:17	7440-43-9	
Chromium	3.9	mg/L	0.050	1	05/30/24 07:07	05/30/24 12:17	7440-47-3	
Lead	0.21	mg/L	0.025	1	05/30/24 07:07	05/30/24 12:17	7439-92-1	
Selenium	<0.050	mg/L	0.050	1	05/30/24 07:07	05/30/24 12:17	7782-49-2	
Silver	<0.050	mg/L	0.050	1	05/30/24 07:07	05/30/24 12:17	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 05/28/24 23:28								
Pace Analytical Services - Melville								
Mercury	<0.00020	mg/L	0.00020	1	06/03/24 08:00	06/03/24 14:36	7439-97-6	
8260C MSV TCLP								
Analytical Method: EPA 8260C Leachate Method/Date: EPA 1311; 05/29/24 23:40								
Pace Analytical Services - Melville								
1,1-Dichloroethene	<0.010	mg/L	0.010	5		05/31/24 20:11	75-35-4	
1,2-Dichloroethane	<0.010	mg/L	0.010	5		05/31/24 20:11	107-06-2	
2-Butanone (MEK)	0.20	mg/L	0.025	5		05/31/24 20:11	78-93-3	
Benzene	<0.010	mg/L	0.010	5		05/31/24 20:11	71-43-2	
Carbon tetrachloride	<0.010	mg/L	0.010	5		05/31/24 20:11	56-23-5	
Chlorobenzene	<0.010	mg/L	0.010	5		05/31/24 20:11	108-90-7	M1
Chloroform	<0.010	mg/L	0.010	5		05/31/24 20:11	67-66-3	
Tetrachloroethene	<0.010	mg/L	0.010	5		05/31/24 20:11	127-18-4	M1
Trichloroethene	<0.010	mg/L	0.010	5		05/31/24 20:11	79-01-6	
Vinyl chloride	<0.010	mg/L	0.010	5		05/31/24 20:11	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	80-120	5		05/31/24 20:11	17060-07-0	
Toluene-d8 (S)	100	%	75-122	5		05/31/24 20:11	2037-26-5	
4-Bromofluorobenzene (S)	105	%	73-122	5		05/31/24 20:11	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	2.8	%	0.10	1		05/28/24 06:25		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

QC Batch: 350108

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury TCLP

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70299090001

METHOD BLANK: 1811176

Matrix: Water

Associated Lab Samples: 70299090001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00020	0.00020	06/03/24 14:23	

METHOD BLANK: 1810954

Matrix: Water

Associated Lab Samples: 70299090001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00020	0.00020	06/03/24 14:35	

LABORATORY CONTROL SAMPLE: 1811177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.001	0.0010	100	80-120	

MATRIX SPIKE SAMPLE: 1811178

Parameter	Units	70298087004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.00020	0.001	0.0011	105	75-125	

SAMPLE DUPLICATE: 1811179

Parameter	Units	70298087004 Result	Dup Result	RPD	Qualifiers
Mercury	mg/L	<0.00020	<0.00020		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24
Pace Project No.: 70299090

QC Batch:	349768	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3005A	Analysis Description:	6010D MET TCLP
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70299090001

METHOD BLANK: 1809333 Matrix: Water
Associated Lab Samples: 70299090001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.010	0.010	05/30/24 11:49	
Barium	mg/L	<0.20	0.20	05/30/24 11:49	
Cadmium	mg/L	<0.0025	0.0025	05/30/24 11:49	
Chromium	mg/L	<0.010	0.010	05/30/24 11:49	
Lead	mg/L	<0.0050	0.0050	05/30/24 11:49	
Selenium	mg/L	<0.010	0.010	05/30/24 11:49	
Silver	mg/L	<0.010	0.010	05/30/24 11:49	

LABORATORY CONTROL SAMPLE: 1809334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.48	95	80-120	
Barium	mg/L	0.5	0.50	100	80-120	
Cadmium	mg/L	0.5	0.50	99	80-120	
Chromium	mg/L	0.5	0.49	99	80-120	
Lead	mg/L	0.5	0.50	100	80-120	
Selenium	mg/L	0.5	0.47	94	80-120	
Silver	mg/L	0.25	0.24	98	80-120	

MATRIX SPIKE SAMPLE: 1809336

Parameter	Units	70299194001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.050	0.5	0.48	91	75-125	
Barium	mg/L	<1.0	0.5	<1.0	95	75-125	
Cadmium	mg/L	<0.012	0.5	0.47	94	75-125	
Chromium	mg/L	<0.050	0.5	0.47	93	75-125	
Lead	mg/L	<0.025	0.5	0.49	95	75-125	
Selenium	mg/L	<0.050	0.5	0.46	84	75-125	
Silver	mg/L	<0.050	0.25	0.26	102	75-125	

SAMPLE DUPLICATE: 1809335

Parameter	Units	70299194001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	<0.050	<0.050		
Barium	mg/L	<1.0	<1.0		
Cadmium	mg/L	<0.012	<0.012		

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QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24
Pace Project No.: 70299090

SAMPLE DUPLICATE: 1809335

Parameter	Units	70299194001 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	<0.050	<0.050		
Lead	mg/L	<0.025	<0.025		
Selenium	mg/L	<0.050	<0.050		
Silver	mg/L	<0.050	<0.050		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24
Pace Project No.: 70299090

QC Batch:	350048	Analysis Method:	EPA 8260C
QC Batch Method:	EPA 8260C	Analysis Description:	8260 MSV TCLP
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70299090001

METHOD BLANK: 1810642 Matrix: Water

Associated Lab Samples: 70299090001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.0020	0.0020	05/31/24 15:20	
1,2-Dichloroethane	mg/L	<0.0020	0.0020	05/31/24 15:20	
2-Butanone (MEK)	mg/L	<0.0050	0.0050	05/31/24 15:20	
Benzene	mg/L	<0.0020	0.0020	05/31/24 15:20	
Carbon tetrachloride	mg/L	<0.0020	0.0020	05/31/24 15:20	
Chlorobenzene	mg/L	<0.0020	0.0020	05/31/24 15:20	
Chloroform	mg/L	<0.0020	0.0020	05/31/24 15:20	
Tetrachloroethene	mg/L	<0.0020	0.0020	05/31/24 15:20	
Trichloroethene	mg/L	<0.0020	0.0020	05/31/24 15:20	
Vinyl chloride	mg/L	<0.0020	0.0020	05/31/24 15:20	
1,2-Dichloroethane-d4 (S)	%	92	80-120	05/31/24 15:20	
4-Bromofluorobenzene (S)	%	106	73-122	05/31/24 15:20	
Toluene-d8 (S)	%	98	75-122	05/31/24 15:20	

METHOD BLANK: 1806683 Matrix: Solid

Associated Lab Samples: 70299090001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.010	0.010	05/31/24 19:31	
1,2-Dichloroethane	mg/L	<0.010	0.010	05/31/24 19:31	
2-Butanone (MEK)	mg/L	<0.025	0.025	05/31/24 19:31	
Benzene	mg/L	<0.010	0.010	05/31/24 19:31	
Carbon tetrachloride	mg/L	<0.010	0.010	05/31/24 19:31	
Chlorobenzene	mg/L	<0.010	0.010	05/31/24 19:31	
Chloroform	mg/L	<0.010	0.010	05/31/24 19:31	
Tetrachloroethene	mg/L	<0.010	0.010	05/31/24 19:31	
Trichloroethene	mg/L	<0.010	0.010	05/31/24 19:31	
Vinyl chloride	mg/L	<0.010	0.010	05/31/24 19:31	
1,2-Dichloroethane-d4 (S)	%	93	80-120	05/31/24 19:31	
4-Bromofluorobenzene (S)	%	105	73-122	05/31/24 19:31	
Toluene-d8 (S)	%	97	75-122	05/31/24 19:31	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

METHOD BLANK: 1809269

Matrix: Solid

Associated Lab Samples: 70299090001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.010	0.010	05/31/24 19:51	
1,2-Dichloroethane	mg/L	<0.010	0.010	05/31/24 19:51	
2-Butanone (MEK)	mg/L	<0.025	0.025	05/31/24 19:51	
Benzene	mg/L	<0.010	0.010	05/31/24 19:51	
Carbon tetrachloride	mg/L	<0.010	0.010	05/31/24 19:51	
Chlorobenzene	mg/L	<0.010	0.010	05/31/24 19:51	
Chloroform	mg/L	<0.010	0.010	05/31/24 19:51	
Tetrachloroethene	mg/L	<0.010	0.010	05/31/24 19:51	
Trichloroethene	mg/L	<0.010	0.010	05/31/24 19:51	
Vinyl chloride	mg/L	<0.010	0.010	05/31/24 19:51	
1,2-Dichloroethane-d4 (S)	%	90	80-120	05/31/24 19:51	
4-Bromofluorobenzene (S)	%	104	73-122	05/31/24 19:51	
Toluene-d8 (S)	%	95	75-122	05/31/24 19:51	

LABORATORY CONTROL SAMPLE: 1810643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/L	0.05	0.043	86	66-133	
1,2-Dichloroethane	mg/L	0.05	0.046	93	69-134	
2-Butanone (MEK)	mg/L	0.05	0.046	92	33-165	
Benzene	mg/L	0.05	0.049	98	78-117	
Carbon tetrachloride	mg/L	0.05	0.051	102	64-135	
Chlorobenzene	mg/L	0.05	0.052	104	79-117	
Chloroform	mg/L	0.05	0.047	94	79-123	
Tetrachloroethene	mg/L	0.05	0.056	112	65-120 v1	
Trichloroethene	mg/L	0.05	0.051	101	79-115	
Vinyl chloride	mg/L	0.05	0.039	78	49-118	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			108	73-122	
Toluene-d8 (S)	%			98	75-122	

MATRIX SPIKE SAMPLE: 1811272

Parameter	Units	70299090001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/L	<0.010	0.25	0.30	120	61-139	
1,2-Dichloroethane	mg/L	<0.010	0.25	0.27	107	58-138	
2-Butanone (MEK)	mg/L	0.20	0.25	0.42	88	33-148	
Benzene	mg/L	<0.010	0.25	0.28	114	70-130	
Carbon tetrachloride	mg/L	<0.010	0.25	0.33	131	56-143	
Chlorobenzene	mg/L	<0.010	0.25	0.32	128	74-122 M1	
Chloroform	mg/L	<0.010	0.25	0.29	117	71-129	
Tetrachloroethene	mg/L	<0.010	0.25	0.37	147	64-124 M1,v1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

MATRIX SPIKE SAMPLE:		1811272					
		70299090001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Trichloroethene	mg/L	<0.010	0.25	0.30	122	73-125	
Vinyl chloride	mg/L	<0.010	0.25	0.26	103	33-127	
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				108	73-122	
Toluene-d8 (S)	%				100	75-122	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEALANTS/ADHESIVE DEBRIS 5/24
Pace Project No.: 70299090

QC Batch:	349510	Analysis Method:	ASTM D2216-05M
QC Batch Method:	ASTM D2216-05M	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70299090001		

SAMPLE DUPLICATE: 1807706

Parameter	Units	70298976003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	65.8	66.6	1	

SAMPLE DUPLICATE: 1807707

Parameter	Units	70299165001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.8	16.2	9	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: SEALANTS/ADHESIVE DEBRIS 5/24

Pace Project No.: 70299090

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 349775

- [1] The post digestion spike for sample 70299194001 (PDS 1809350) did not meet acceptance criteria for Silver, Arsenic, Barium, Cadmium, Chromium, Lead, and Selenium.
- [2] The serial dilution for sample 70299194001 (SD 1809351) did not meet acceptance criteria for Arsenic, Barium and Selenium.

ANALYTE QUALIFIERS

- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEALANTS/ADHESIVE DEBRIS 5/24
Pace Project No.: 70299090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70299090001	24052301-MAM	EPA 3005A	349768	EPA 6010D	349775
70299090001	24052301-MAM	EPA 7470A	350108	EPA 7470A	350149
70299090001	24052301-MAM	EPA 8260C	350048		
70299090001	24052301-MAM	ASTM D2216-05M	349510		

REPORT OF LABORATORY ANALYSIS

CHECKLIST FOR HAZARDOUS WASTE PARAMETERS

TCLP RCRA Metals		
— Arsenic	As	5.0
— Barium	Ba	100.0
— Cadmium	Cd	1.0
— Chromium	Cr	5.0
— Lead	Pb	5.0
— Mercury	Hg	0.2
— Selenium	Se	1.0
— Silver	Ag	5.0

TCLP Organics

[Volatile Organics]

— Benzene	0.500
— Carbon Tetrachloride	0.500
— Chlorobenzene	100.000
— Chloroform	6.000
— 1,2-Dichloroethane	0.500
— 1,1-Dichloroethene	0.700
— 2-Butanone (MEK)	200.000
— Tetrachloroethene	0.700
— Trichloroethene	0.500
— Vinyl Chloride	0.200

[TCLP Semi-Volatile Organics]

[Acid/Base-Neutral Compounds]

— Cresol (_o,_m,_p) ²	200.000
— 1,4-Dichlorobenzene	7.500
— 2,4-Dinitrotoluene	0.130
— Hexachlorobenzene	0.130
— Hexachlorobutadiene	0.500
— Hexachloroethane	3.000
— Nitrobenzene	2.000
— Pentachlorophenol	100.000
— Pyridine	5.000
— 2,4,5-Trichlorophenol	400.000
— 2,4,6-Trichlorophenol	2.000

Ducommun AeroStructures New York, Inc.
Sample ID:

WO#: 70299090

PM: DHB

Due Date: 06/10/24

CLIENT: DUCO

Client Name:

Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pac ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ Non ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TN211 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.2 Cooler Temperature Corrected (°C): 2.1 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☒ No

Did samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: 5/29/24 [Signature]

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☐ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☐ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u> <u>WT</u> <u>OIL</u> <u>OTHER</u>	

Date and Initials of person checking preservation:

All containers needing preservation have been ☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15. Positive for Sulfide? Y N
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A	
Lead Acetate Strips Lot #	
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A	16.
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	17.
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Attachment 11

Waste Manifest Examples



Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000219550	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0887	4. Manifest Tracking Number 001914991 VES			
5. Generator's Name and Mailing Address DUCOMMUN AEROSTRUCTURES, INC. 171 STACEY RD COXSACKIE, NY 12051-2613 Generator's Phone: 518 731-4650			Generator's Site Address (if different than mailing address) SAME					
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJ D 0 8 0 6 3 1 3 6 9					
7. Transporter 2 Company Name FREEHOLD CARTAGE INC			U.S. EPA ID Number NJ D 0 5 4 1 2 6 1 6 4					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS LLC. 1 EDEN LANE FLANDERS, NJ 07836 Facility's Phone: 973 347-7111			U.S. EPA ID Number NJ D 9 8 0 5 3 6 5 9 3					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (CHROMIUM, SILVER), 9. III, RQ (D007) <i>tm</i>	1	C F	150	P	F003	D011
		2.					D007	B
		3.						
		4.						
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTIS - Contractor retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. - 1) ERG:171 W:992557 A:TWISOLMS3								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name MARY MCCOY		Signature <i>Mary McCoy</i>		Month 1		Day 0		Year 23
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Part of entry/exit Date leaving U.S.					
	17. Transporter Acknowledgment of Receipt of Materials		Signature <i>Gretchen Ellinwood</i>		Month 1		Day 0	
	Transporter 1 Printed/Typed Name GRETCHEN ELLINWOOD		Signature <i>Paul Elmer</i>		Month 10		Day 11	
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
	18c. Signature of Alternate Facility (or Generator)				Month 10			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. <i>HM</i>		2.		3.		4.		
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a								
Printed/Typed Name JAMES CHRISTOPHER		Signature <i>James Christopher</i>		Month 10		Day 11		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000219550		2. Page 1 of 1		3. Emergency Response Phone (877) 818-0087		4. Manifest Tracking Number 002236763 VES			
		5. Generator's Name and Mailing Address DUCOMMUN AEROSTRUCTURES, INC. 171 STACEY RD COXSACKIE, NY 12051-2613 Generator's Phone: 518 731-4650		Generator's Site Address (if different than mailing address) SAME							
VEOLIA ES TECHNICAL SOLUTIONS		6. Transporter 1 Company Name		U.S. EPA ID Number NJD080631369							
		7. Transporter 2 Company Name Freehold Cartage Inc.		U.S. EPA ID Number NTD05126164							
8. Designated Facility Name and Site Address STABLEX CANADA 760 BLVD. INDUSTRIEL BLAINVILLE, PQ, QC J7C 3V4 Facility's Phone: 450 430-9230				U.S. EPA ID Number							
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
				No. Type							
X		1. UN2922, WASTE CORROSIVE LIQUIDS, TOXIC, n.o.s., (NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II, RQ (D002)		5 T P		11000		P		D002 T	
										D007	
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. Primary Exporter: Veolia ES Technical Solutions, LLC. Exporting per AOC 035851/08E/23, expires 09/11/2024. + 1) ERG:154 W:992559 A:STB021654 11035851E2J073 ITN: X20240108438186											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name Mary A McCoy Signature [Signature] Month 01 Day 05 Year 24											
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Chemplogim Date leaving U.S.: 1/9/24											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Matthew Mokritski Signature [Signature] Month 01 Day 05 Year 24											
Transporter 2 Printed/Typed Name Matthew Mokritski Signature [Signature] Month 01 Day 05 Year 24											
18. Discrepancy											
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number											
Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Celine Davis Signature [Signature] Month 01 Day 10 Year 24											

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR



Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000219550		2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087		4. Manifest Tracking Number 002236882 VES			
		5. Generator's Name and Mailing Address DUCOMMUN AEROSTRUCTURES, INC. 171 STACEY RD COXSACKIE, NY 12051-2613 Generator's Phone: 518 731-4650		Generator's Site Address (if different than mailing address) SAME						
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9								
7. Transporter 2 Company Name FREEHOLD CARTAGE INC		U.S. EPA ID Number N J D 0 5 4 1 2 6 1 6 4								
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS L.L.C. 1 EDEN LANE FLANDERS, NJ 07836		U.S. EPA ID Number N J D 9 8 0 5 3 6 5 9 3								
Facility's Phone: 973 347-7111										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type	11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
	X	1. NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (CHROMIUM, SILVER), 9, III			3 C F	750	P	F003 D011		
		2.						D007 B		
		3.								
		4.								
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS -+ Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) ERG:171 W:992557 A:TWISOLMS3										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Officer's Printed/Typed Name Mary McCoy Signature Mary McCoy Month 10 Day 20 Year 2024										
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name GRETCHEN ELLIWOOD Signature Gretchen Ellwood Month 02 Day 07 Year 24 Transporter 2 Printed/Typed Name Dave Em Signature Dave Em Month 12 Day 9 Year 24									
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:									
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H141 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Peter Beran Signature Peter Beran Month 10 Day 09 Year 24										

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000219550	2. Page 1 of 1	3. Emergency Response Phone (877) 818-8887	4. Manifest Tracking Number 002353002 VES	
5. Generator's Name and Mailing Address DUCOMMUN AEROSTRUCTURES, INC. 171 STACEY RD COXSACKIE, NY 12051-2613 Generator's Phone: 518 731-4630			Generator's Site Address (if different than mailing address) SAME			
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJD080631369			
7. Transporter 2 Company Name Freehold Cartage Inc			U.S. EPA ID Number NTD054126164			
8. Designated Facility Name and Site Address STABLEX CANADA 760 BLVD. INDUSTRIEL BLAINVILLE, PQ, QC J7C 3V4 Facility's Phone: 450 430-9230			U.S. EPA ID Number NYD980756415			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. UN2922, WASTE CORROSIVE LIQUIDS, TOXIC, n.o.s., (NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II, RQ (D002)	4	T P	8800	P	D002 T
X	2. UN3262, CORROSIVE SOLID, BASIC, INORGANIC, n.o.s., (POTASSIUM HYDROXIDE), 8, II	2	DM	1200	P	NONE
X	3. UN3266, WASTE CORROSIVE LIQUID, BASIC, INORGANIC, n.o.s., (SODIUM HYDROXIDE), 8, III	2	DF	800	P	D002 T
	4.					
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. Primary Exporter: Veolia ES Technical Solutions, LLC. Exporting per ADC 035851/08E/23, expires 09/11/2024. + 1) ERG:154 W:992559 A:STB021654 2) ERG:154 W:992868 A:STB021659 3) ERG:154 W:992812 A:STB021638 1)035851E23673 2)035851E23125 3)035851E23129 ITN: X2024 0207144320						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name MARGA MCCOY		Signature <i>Margaret McCoy</i>		Month Day Year 02 07 24		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Cherry Point, NY Transporter signature (for exports only): <i>Roger Wadell</i> Date leaving U.S.: 5/8/24						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name GRETCHEN ELLIWOOD		Signature <i>Gretchen Ellwood</i>		Month Day Year 02 07 24		
Transporter 2 Printed/Typed Name Roger Wadell		Signature <i>R Wadell</i>		Month Day Year 02 07 24		
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H-132	2. H-132	3. H-132	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Julie Smith		Signature <i>Julie Smith</i>		Month Day Year 02 08 24		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000219550	2. Page 1 of 1	3. Emergency Response Phone (877) 818-6867	4. Manifest Tracking Number 002353236 VES		
5. Generator's Name and Mailing Address DUCOMMUN AEROSTRUCTURES, INC. 171 STACEY RD COXSACKIE, NY 12051-2613			Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 518 731-4650							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJD080631369				
7. Transporter 2 Company Name FREEMOLD CARTAGE INC			U.S. EPA ID Number NJD054126164				
8. Designated Facility Name and Site Address STABLEX CANADA 760 BLVD. INDUSTRIEL BLAINVILLE, PQ, QC J7C 3V4			U.S. EPA ID Number NYD980756415				
Facility's Phone: 450 430-9230							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN2922, WASTE CORROSIVE LIQUIDS, TOXIC, N.O.S., (NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II, RQ (D002)	4	T P	8800	P	D002 T
		2.					D007
		3.					
		4.					
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. Primary Exporter: Veolia ES Technical Solutions, LLC. Exporting per AOC 035851/08E/23, expires 09/11/2024 + 1) ERG: 154 W-992559 A: STB021654 11035851E23073 ITM: X20240401203741							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name: Mary McCoy Signature: [Signature] Month: 03 Day: 26 Year: 24							
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain, NY Date leaving U.S.: 4/2/24						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name: Matthew Makritsk		Signature: [Signature]		Month: 03 Day: 26 Year: 24		
	Transporter 2 Printed/Typed Name: Matthew G. Lee		Signature: [Signature]		Month: 04 Day: 02 Year: 24		
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator) Month: Day: Year:						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name: Celine Leiris		Signature: [Signature]		Month: 04 Day: 02 Year: 24			

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY 2000210550	2. Page 1 of 2	3. Emergency Response Phone NY 2000210550	4. Manifest Tracking Number 002353387 VES			
5. Generator's Name and Mailing Address DUCCAMUN AEROSTRUCTURES, INC. 171 STACY RD CONSAKLE, NY 12051-2613 Generator's Phone: 518 731-6650			Generator's Site Address (if different than mailing address) SAME					
6. Transporter 1 Company Name VEOLIA ENVIRONMENTAL SOLUTIONS			U.S. EPA ID Number NJ D050631369					
7. Transporter 2 Company Name FREEHOLD CARTAGE INC			U.S. EPA ID Number NJ D054126164					
8. Designated Facility Name and Site Address STALEX CANADA 760 BLVD. INDUSTRIEL BLAINVILLE, PQ, QC J7C 3V4			U.S. EPA ID Number NY D980756415					
Facility's Phone: 430 430-9230								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. UN2922, WASTE CORROSIVE LIQUIDS, TOXIC, n.o.s., (NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II, RQ (D002)	3	D F	400	P	D002	T
	X	2. UN2922, WASTE CORROSIVE LIQUIDS, TOXIC, n.o.s., (NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II, RQ (D002)	5	T P	11000	P	D002	T
	X	3. UN2923, WASTE CORROSIVE SOLIDS, TOXIC, n.o.s., (NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II	1	D F	100	P	D007	T
	X	4. UN3262, CORROSIVE SOLID, BASIC, INORGANIC, n.o.s., (POTASSIUM HYDROXIDE), 8, II	1	D M	400	P	NONE	
14. Special Handling Instructions and Additional Information RR Service Contracted by VESTS - Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. 1) ERG:154 W:992559 A:STB021654 2) ERG:154 W:992559 A:STB021654 3) ERG:154 W:1049672 A:STB021654 4) ERG:154 W:992868 A:STB021654 Primary Exporter: Veolia ETS, LLC Exporting for A.C.C. 03587103E/23, Exported 9/11/24. 1-2) 03587103E/23 3) 03587103E/23 4) 03587103E/23 ITN: 220240506180251								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name MARY MCCOY			Signature 			Month Day Year 04 29 24		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.			Port of entry/exit: <u>Champton, NY</u>			Date leaving U.S.: <u>5/7/24</u>		
17. Transporter Acknowledgment of Receipt of Materials								
TRANSPORTER	Transporter 1 Printed/Typed Name CHRISTHEN BLINWOOD		Signature 		Month Day Year 04 29 24			
	Transporter 2 Printed/Typed Name Roger Wacker		Signature 		Month Day Year 05 07 24			
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
	Manifest Reference Number:							
18b. Alternate Facility (or Generator) Facility's Phone:			U.S. EPA ID Number					
18c. Signature of Alternate Facility (or Generator)							Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. <u>H132</u>		2. <u>H132</u>		3. <u>H132</u>		4. <u>H132</u>		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Selene Davis			Signature 			Month Day Year 05 07 24		

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NYR000212350	22. Page 1 of 2	23. Manifest Tracking Number 002353387VBS		
24. Generator's Name MICROMALIN AEROSTRUCTURES, INC.						
25. Transporter _____ Company Name				U.S. EPA ID Number		
26. Transporter _____ Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No. Type		29. Total Quantity	30. Unit WL/Vol.	31. Waste Codes
X	5. UN3266, WASTE CORROSIVE LIQUID, BASIC, INORGANIC, a.s.s. (SOLUBLE HYDROXIDE), T, III	2	DR	000	P	IM01 T
32. Special Handling Instructions and Additional Information 3) H001154 W0902812 A-S11001638 5103587123129						
33. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____						
34. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____						
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 5. H130						