

Inspection Date(s):	25 March 2025	Inspection Announced: No
Facility or Site Name:	Vineland Municipal Electric Utility	
Facility/Site Physical Location:	415 NW Ave	
(city, state, zip code)	Vineland, NJ 08360	
Mailing address (if different from above):		
Facility/Site Contacts:	Robert A. Napier, PE Superintendent of Electric Distribution Vineland Municipal Electric Utility rnapiervinelandcity.org (856) 794-4000 x4304 Fax (856) 405-4623	
Website:	https://utilities.vinelandcity.org/	
RCRA ID Number:	NJD986587442	
Latitude, Longitude:	39.49113182101964, -75.03455279977588	
Facility/Site Personnel Participating in Inspection:		
Robert A. Napier	Superintendent Distribution	
Inspector(s):		
Carl F. Plössl	US EPA, Enforcement Officer/Engineer	Plossl.Carl@epa.gov (212) 637-4088
Additional Inspection Report Elements:	VINELAND MUNICIPAL ELECTRIC UTILITY-Distribution-March 2025 INSPECTION REPORT PHOTO ALBUM.pptx	
Inspection Report Author:		
Carl F. Plössl	CARL PLOSSL Digitally signed by CARL PLOSSL Date: 2025.04.21 14:50:55 -04'00'	
Supervisor		
Leonard Grossman	Grossman, Lenny Digitally signed by Grossman, Lenny Date: 2025.04.23 15:02:08 -04'00'	

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VINELAND MUNICIPAL ELECTRIC UTILITY – DISTRIBUTION – INSPECTION REPORT

SECTION I – INTRODUCTION

Purpose of the Inspection Objective

A Compliance Evaluation Inspection (CEI) was conducted to determine the facility's compliance with the Resource Conservation and Recovery Act (RCRA) requirements for hazardous waste management.

Background

The facility has been previously inspected for RCRA compliance in April of 2024 (violations listed below and in attached *Vineland NOV IRL 21 November 2024 - Signed.pdf*) and has had a notification history as a large quantity generator, in 1994, and in 2007 as not a generator. A review of the facility's waste manifest records shows no activity. The facility was never inspected under the Clean Air Act or under the Clean Water Act.

Notification History:

Date	Source	Status
1/1/07	Implementer	-
1/1/06	Implementer	-
3/1/94	Bi. Report	LQG

Facility Name: City of Vineland Electric Utility

415 N West Ave, Vineland, NJ 08360

County: Cumberland

FRS: 110014583138

Inspection Required?: no

Reason Required: N/A

Gen. Status calculated by EPA:

Generator Status in RCRAInfo: N

TSDF?: no

Most Recent RCRA Inspection: 4/17/2024

Last EPA Inspection: 4/17/2024

Last State Inspection:

Last Record Review:

Federal Facility?: no

Federal Agency Name:

Is the facility a LQG, but did not submit a Biennial Report?: no

LQG not inspected in the past 5 years?: no

Most recent activity (enf action or inspection) was an informal EA?: no

Hot Spot Class:

Flood Risk: none

RSEI Score:

NAICS:

CAA Permit Types:

Last EPA formal EA?:

Last EPA informal EA : 12/6/2024

Last state formal EA:

Last state informal EA :

Last CAA inspection:

Last CWA inspection:

Last Notification: 1/1/2007

Financial Assurance Required?: no

RCRA compliance issues in April of 2024

Waste Determination

- 40 C.F.R. § 262.11(a) Waste Determination: Generator must determine if waste is a hazardous waste at the point of generation before any dilution, mixing, or other alteration of the waste occurs, and at any time in the course of its management that it has, or may have, changed its properties as a result of exposure to the environment or other factors.
- 40 C.F.R. § 262.11(c) Listing Determination: Generator must determine whether a waste meets any of the listings in 40 CFR 261 Subpart D.
- 40 C.F.R. § 262.11(d) Characteristic Determination: Generator must determine whether a waste exhibits any of the characteristics identified in 40 CFR 261 Subpart C.

At the time of the inspection, no hazardous waste determination had been made on the following wastes:

- The oil contaminated with transformer oils, stored in the newly constructed used oil, other wastes, and material storage building.
- Spent aerosol cans.
- Spent hazardous waste lamps, located during the inspection in an open, roll-off/dumpster, were managed and designated for disposal as non-hazardous scrap metal.

Used Oil

- 40 C.F.R. § 279.22(c)(1), Container Management: Used oil containers and tanks must be labeled as "Used Oil."
Use oil was being accumulated without being labeled as "Used Oil" in the vehicle storage/maintenance area.

Universal Waste

- 40 C.F.R. § 273.15(c), General Requirements: Must demonstrate the length of time that the universal waste has been accumulated.
Both used battery and waste lamp containers lacked an indication of their length of accumulation.
- 40 C.F.R. § 273.13(d)(1), Lamps: A small quantity handler of universal waste must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage or damage that could cause leakage under reasonably foreseeable conditions.
Some universal waste lamps were not stored in containers. Others were stored in open containers.

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7. 40 C.F.R. § 273.14(e), Labeling/marketing: Each lamp or a container or package in which such lamps are contained must be labeled or marked clearly with one of the following phrases: Universal Waste-Lamp(s), or Waste Lamp(s), or Used Lamp(s).
Universal waste lamps were stored in unlabeled containers.
8. 40 C.F.R. § 273.14(a), Labeling/marketing: Individual batteries or their containers must be labeled “Universal Waste-Battery(ies),” or “Waste Battery(ies),” or “Used Battery(ies)”-273.14(a)
Waste batteries were stored in unlabeled containers.
9. 40 C.F.R. § 273.16, General Requirements: Must train employees responsible for management of universal waste in proper handling and emergency procedures.
Employees responsible for management of universal waste were not trained in proper handling.

Opening Conference

25 March 2025. I, EPA Region 2 RCRA inspector Plössl, arrived at the main entrance to the Vineland Municipal Electric Utility at ~11:20 am for an unannounced reinspection of the municipal utility. I announced and identified myself at the reception area and was connected with Robert A. Napier, PE, Superintendent of Electric Distribution for the Vineland Municipal Electric Utility. Eng. Napier was quite familiar the nature of federal and state compliance inspections but not those conducted pursuant to RCRA federal and state hazardous waste regulations. We discussed the facility past and current operations, waste management and disposal practices, and the nature of RCRA inspections.

We then began a walk through and inspection of the main building, several smaller buildings, and an outdoor waste management area.

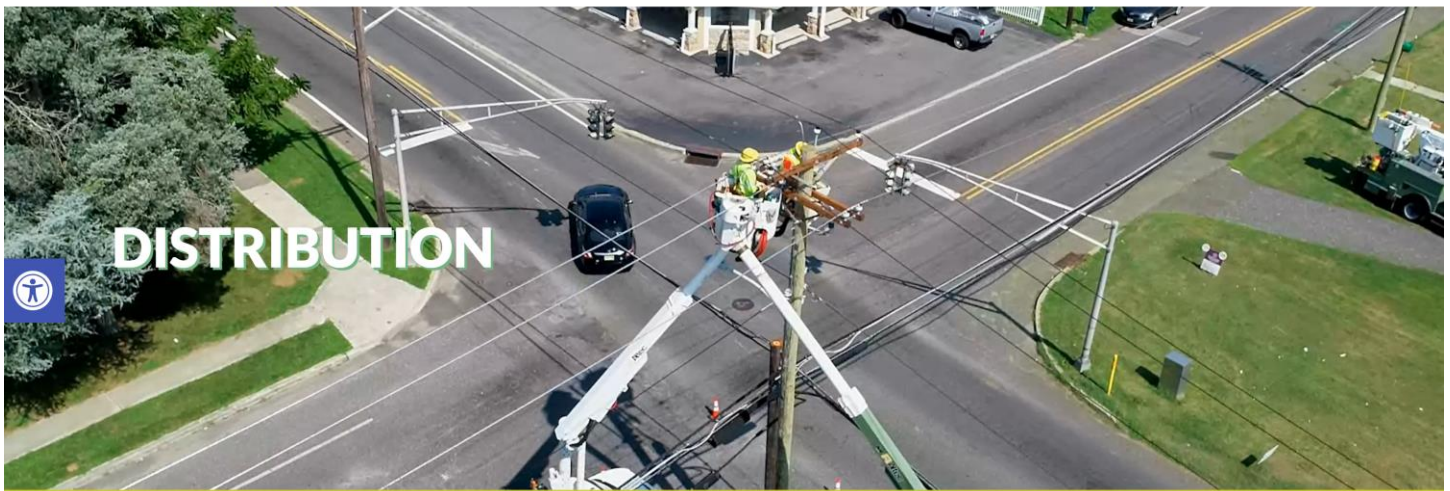
Facility/Site Description

<https://utilities.vinelandcity.org/>

<https://utilities.vinelandcity.org/distribution/>



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From Clean Energy Authority:

- <https://www.cleanenergyauthority.com/electric-utility/vineland-municipal-electric-utility>

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Vineland Municipal Electric Utility is the only municipally-owned electric generating utility in the State of New Jersey. VMEU has been providing electric service to the residents of the City of Vineland since 1899.

The Electric Utility's generating capacity is 132,900 kW Summer/143,400 kW Winter. Additionally, the Electric Utility maintains an interconnection with Atlantic City Electric, and membership in the Pennsylvania-New Jersey-Maryland (PJM) Interconnection which includes the major investor owned electric utilities throughout the Mid-Atlantic and Midwest Regions. VMEU also receives a monthly allocation of 4,300 kW of PASNY Hydro Power. Thus, the Electric Utility is able to meet the demands of its users even in times of emergency.

Google Maps shows the inspected facility as at:



According to Eng. Napier, *et. al.*:

- General
 - Facility has been operating since 1899 and has been located at this site since ~1953.
 - Eng. Napier has worked for the Electric Utility since ~1987.
 - 54 employees work at this location, with three 8-hour shifts covering 7-days/week.
 - The majority of the facility operation involve office functions for the Electric Utility's various operations and other facilities, managing the Electric Utility supplies with, and, to a lesser extent, managing waste equipment from this and other Electric Utility operations.
 - Operations include some 14 substations and a warehouse on 2nd Street.
 - ~95% of streetlights have been replaced by LED.
 - Warehouse Shopkeepers manage the spent, damaged, and surplus equipment and other materials the determination as to dispositions:
 - In general:
 - Transfer to other Electric Utility facilities;
 - Resale as viable equipment;
 - Disposal as scrap, used oil, recycled, solid waste, hazardous, and universal wastes
 - Transformers:
 - Main issue: contaminated oil
 - Refurbish (return to service)-> repair (return to service)-> scrap (Cumberland County as scrap metal)
- Other hazardous waste generation

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- Spent fluorescent lamps
- Spent high intensity lamps
- Old paints and spent cleaning and painting solvents
- Spent aerosol cans
- Spent lead acid, NiCd, and lithium batteries
- E-wastes
- Old pipes with lead insulation or threads
- Parts washers (no available haz waste determination)
 - Likely: GRRR™ Super Concentrated Cleaner and Degreaser
 - Non-hazardous unless contaminated
 - May be contaminated with: Cable Clean® High Voltage Splice and Termination Cleaner (see SDS Appendix 2):
 - trans-1,2-dichloroethylene, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)ethane
 - If discarded, this product is considered a RCRA ignitable waste, D001.
 - When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.
 - May be contaminated with other chlorinated solvents
- Other regulated wastes
 - Used oil
- Waste dispositions
 - Universal waste disposal records were available
 - Used oil waste disposal records were available



SECTION II – OBSERVATIONS

The accompanying *VINELAND MUNICIPAL ELECTRIC UTILITY-Distribution-March 2025 INSPECTION REPORT PHOTO ALBUM.pptx* document is the complete set of inspection observations made during the facility walkthrough with Eng. Napier.

SECTION III – AREAS OF CONCERN

- None of note.

Closing Conference

Eng. Napier and I reviewed my findings and we discussed possible follow up.

INSPECTION PHOTOGRAPHS: See *VINELAND MUNICIPAL ELECTRIC UTILITY-Distribution-March 2025 INSPECTION REPORT PHOTO ALBUM.pptx*

APPENDICES

1. Universal Waste Regulations
2. Safety Data Sheet

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Appendix 1: Certain, Applicable Universal Waste Regulations

Title 40 Chapter I Subchapter I Part 273

Small quantity handler of universal means a universal waste handler who does not accumulate 5,000 kilograms or more of universal waste (batteries, pesticides, mercury-containing equipment, lamps, or aerosol cans, calculated collectively) at any time.

A small quantity handler of universal waste is:

- (a) Prohibited from disposing of universal waste; and
- (b) Prohibited from diluting or treating universal waste, except by responding to releases as provided in 40 CFR 273.17; or by managing specific wastes as provided in 40 CFR 273.13.

Lamps. A small quantity handler of universal waste must manage lamps in a way that prevents releases of any universal waste or component of a universal waste to the environment, as follows:

- (1) A small quantity handler of universal waste must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage or damage that could cause leakage under reasonably foreseeable conditions.
- (2) A small quantity handler of universal waste must immediately clean up and place in a container any lamp that is broken and must place in a container any lamp that shows evidence of breakage, leakage, or damage that could cause the release of mercury or other hazardous constituents to the environment. Containers must be closed, structurally sound, compatible with the contents of the lamps and must lack evidence of leakage, spillage or damage that could cause leakage or releases of mercury or other hazardous constituents to the environment under reasonably foreseeable conditions.

A small quantity handler of universal waste must label or mark the universal waste to identify the type of universal waste as specified below:

- (a) Universal waste batteries (i.e., each battery), or a container in which the batteries are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste—Battery(ies)," or "Waste Battery(ies)," or "Used Battery(ies);"
- (e) Each lamp or a container or package in which such lamps are contained must be labeled or marked clearly with one of the following phrases: "Universal Waste—Lamp(s)," or "Waste Lamp(s)," or "Used Lamp(s)".

A small quantity handler of universal waste may accumulate universal waste for no longer than one year from the date the universal waste is generated, or received from another handler, unless the requirements of paragraph (b) of this section are met.

A small quantity handler of universal waste who accumulates universal waste must be able to demonstrate the length of time that the universal waste has been accumulated from the date it becomes a waste or is received. The handler may make this demonstration by:

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- (1) Placing the universal waste in a container and marking or labeling the container with the earliest date that any universal waste in the container became a waste or was received;
- (2) Marking or labeling each individual item of universal waste (*e.g.*, each battery or thermostat) with the date it became a waste or was received;
- (3) Maintaining an inventory system on-site that identifies the date each universal waste became a waste or was received;
- (4) Maintaining an inventory system on-site that identifies the earliest date that any universal waste in a group of universal waste items or a group of containers of universal waste became a waste or was received;
- (5) Placing the universal waste in a specific accumulation area and identifying the earliest date that any universal waste in the area became a waste or was received; or
- (6) Any other method which clearly demonstrates the length of time that the universal waste has been accumulated from the date it becomes a waste or is received.

A small quantity handler of universal waste must inform all employees who handle or have responsibility for managing universal waste. The information must describe proper handling and emergency procedures appropriate to the type(s) of universal waste handled at the facility.

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Appendix 2:

- **Safety Data Sheets - Cable Clean® High Voltage Splice and Termination Cleaner**



SAFETY DATA SHEET

1. Identification

Product identifier Cable Clean® High Voltage Splice and Termination Cleaner - 1 lb 3 oz

Other means of identification

Product Code No. 02069 (Item# 1003195) **Recommended use**

Splice and termination cleaner **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.
Warminster, PA 18974 US

Telephone

General Information 215-674-4300

Technical Assistance 800-521-3168

Customer Service 800-272-4620

24-Hour Emergency 800-424-9300 (US)

(CHEMTREC)

Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 2
	Gases under pressure	Compressed gas
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
Signal word	Danger	
Hazard statement	Flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves.	

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Aspiration hazard

Category 1

Environmental hazards

Hazardous to the aquatic environment, long-term hazard Category 3

OSHA defined hazards

Not classified.

Label elements



Response

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage

Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
trans-1,2-dichloroethylene		156-60-5	80 - 90
1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)ethane	HFE-347PCF2 thoxy	406-78-0	10 - 20
carbon dioxide		124-38-9	3 - 5

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	US. NIOSH: Pocket Guide to Chemical Hazards Components Value	Type
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	5000 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3	200 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
	TWA	30000 ppm 9000 mg/m3 5000 ppm
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	790 mg/m3 200 ppm

U.S. - EPA Components

Components	Type	Value
1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane (CAS 406-78-0)	Ceiling Limit Value	150 ppm

Manufacturer OEL

Components	Type	Value
1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane (CAS 406-78-0)	TWA	50 ppm

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Appearance

Physical state

Liquid.

Form

Aerosol.

Color

Colorless.

Odor

Ethereal.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

-137.2 °F (-94 °C) estimated

Initial boiling point and boiling range

118.4 °F (48 °C) estimated

Flash point

None (Setaflash)

Evaporation rate

Fast.

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Flammability (solid, gas) Not available. 406-78-0)

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering Good general ventilation should be used. Ventilation rates should be matched to conditions. If **controls** 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Fluoroelastomer. Nitrile. Polyvinyl alcohol (PVA).

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

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Upper/lower flammability or explosive limits

Explosive limit - 6.7 %
lower (%) estimated
Explosive limit - 18 % estimated
upper (%)

Vapor pressure 2792.6 hPa
estimated

Vapor density Not available.

Relative density 1.26 estimated

Solubility(ies)

Solubility (water) Slight.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition 860 °F (460 °C)
temperature estimated

Decomposition Not available.
temperature

Viscosity Not available.

Percent volatile 96 % estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products Halogenated materials. Hydrogen chloride. Carbon oxides. Hydrogen fluoride. Phosgene. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

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Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Information on toxicological effects	
Acute toxicity	May be fatal if swallowed and enters airways. In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Not listed.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	
Not listed.	
US. National Toxicology Program (NTP) Report on Carcinogens	
Not listed.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - exposure	May cause drowsiness or dizziness. single
Specific target organ toxicity - exposure	Not classified. repeated
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects. Pe
and degradability	No data is available on the deg Bioaccu adability of any ingredients in the mixture.
potential	No data available.
Partition coefficient n-octanol / water (log Kow)	
1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane	2.18
trans-1,2-dichloroethylene	2.06
Mobility in soil	No data available.
Other adverse effects	Not established.

13. Disposal considerations

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Disposal instructions	If discarded, this product is considered a RCRA ignitable waste, D001. Empty container can be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not assigned.
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only IATA	Allowed with restrictions.

UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not assigned.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS, Limited Quantity

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Transport hazard class(es)

Class 2.1

Subsidiary risk -

Packing group Not assigned.

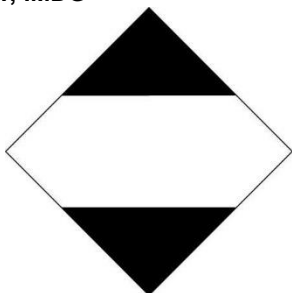
Environmental hazards

Marine pollutant No.

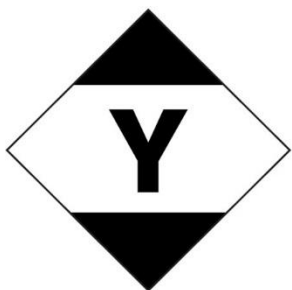
EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT; IMDG



IATA



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane 1.0 % One-Time Export Notification only. (CAS 406-78-0)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) trans-1,2-dichloroethylene

(CAS 156-60-5)

CERCLA Hazardous Substances: Reportable quantity trans-1,2-dichloroethylene

(CAS 156-60-5) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

Food and Drug Administration (FDA) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Gas under pressure Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) Aspiration hazard
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SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

SARA 313 (TRI reporting) Not regulated.

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) trans-1,2-dichloroethylene (CAS 156-60-5)

US. New Jersey Worker and Community Right-to-Know Act carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

US. Massachusetts RTK - Substance List carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

US. Pennsylvania Worker and Community Right-to-Know Law carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

US. Rhode Island RTK carbon dioxide (CAS 124-38-9) trans-1,2-dichloroethylene (CAS 156-60-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s)) 81.6 %

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**Consumer products
(40 CFR 59, Subpt. C)** Not regulated

State

Consumer products Not regulated

VOC content (CA) 96 %

VOC content (OTC) 81.6 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 07-26-2022

Prepared by Danica Fulmer

Version # 01

Further information CRC # 1753498

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Revision information This document has undergone significant changes and should be reviewed in its entirety.