

CLASS A
TYPE I

CHEMICAL NAME: ACETIC ACID, GLACIAL

CLASS

TYPE

A

1

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

COMPOUND

DRY BLEND

PLASTICIZER

VINYL

MAINTENANCE

X LABORATORY

- Glacial Acetic Acid

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

PPM

10

15

Mg/M³

25

37

EFFECTS OF OVEREXPOSURE:

Highly corrosive. Causes severe burns. May be fatal, if swallowed. Eye and lung damage possible.

PURPOSE AND METHOD OF USE:

A Lab solvent used in the TLC analysis of dry blend and in determining "Iodine values" of soya epoxy (latter test rarely performed).

PROTECTIVE EQUIPMENT REQUIRED:

Vent hood, rubber gloves, rubber apron.

FIRE HAZARDS: Moderate when exposed to heat. Can react vigorously with oxidizers; incompatible with carbonates, hydroxides, many oxides and phosphates. Extinguish with water, dry chemical or CO₂.

FIRST AID: Internal: Call a physican. Do not give emetics. Give tap water, milk, or milk of magnesia. If Inhaled: move to fresh air. External: flush eyes or skin with water for at least 15 minutes.

CHEMICAL NAME: ALKYTIN MERCAPTIDE

CLASS

TYPE

A

1

RM CODE	TRADENAME(S)	EXPOSURE LIMITS		X	DEPARTMENT
		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)		COMPOUND
414	Advastab TM-387	PPM Mg/M ³	-	X	DRY BLEND
538	Advastab TM-692				PLASTICIZER
536	Advastab TM-181				VINYL
537	Mark 1925		-		MAINTENANCE
203	Thermolite 101		0.1 (Sn)		LABORATORY
		EFFECTS OF OVEREXPOSURE: Tin poisoning. Symptoms include brain damage, weakness, poralysis.			

PURPOSE AND METHOD OF USE:

Used in large quantities as a heat stabilization additive in "Dry Blended" PVC rigid compounds.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves, rubber apron.

FIRE HAZARDS:

Not easily ignited, but will support combustion. Extinguish with dry chemical.

FIRST AID:

Fresh air for overexposure. Skin: Wash with soap and water, remove contaminated clothing. Eye: Flush with water, get medical attention.



CHEMICAL NAME: ALPHA METHYL STYRENE

CLASS

TYPE

A

I

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

344

Alpha Methyl Styrene (AMS)

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

COMPOUND

DRY BLEND

PLASTICIZER

X

VINYL

PPM

100

100

MAINTENANCE

Mg/M³

480

480

LABORATORY

EFFECTS OF OVEREXPOSURE:

Nasal irritation, dizziness, and narcosis.
Liver and kidney damage possible.

PURPOSE AND METHOD OF USE:

Used as the normal polymerization terminator in PVC production. Poured from drums, by hand, into buckets, thence into open mixing tanks, thence into a reactor charge pot.

PROTECTIVE EQUIPMENT REQUIRED:

Plastic gloves.

FIRE HAZARDS:

Moderate when exposed to heat or flame. Incompatible with oxidizing materials, copper and copper alloys. Extinguish with water fog, CO₂, and dry chemical - use Scott Air Pak.

FIRST AID:

Eyes: Flush with water for 15 minutes; Skin: Wash skin and clothing with soap and water; Inhalation: Remove to fresh air, keep warm and quiet, - if breathing stops, give artificial respiration Ingestion: Induce vomiting.

NOTE: GET MEDICAL ATTENTION IN ALL CASES.

VAB.0001053779



CHEMICAL NAME: AMMONIUM HYDROXIDE

CLASS

TYPE

A

1

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

COMPOUND

DRY BLEND

PLASTICIZER

VINYL

MAINTENANCE

X LABORATORY

-

Ammonium Hydroxide

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

PPM

25

35

Mg/M³

18

27

EFFECTS OF OVEREXPOSURE:

Severe irritation of skin, eyes, and mucous membranes. May produce corneal (eye), heart, and respiratory tract damage.

PURPOSE AND METHOD OF USE:

A Lab chemical used in TLC solvents (small amounts), as a neutralization medium in the determination of iron in waste water and VCM, and occasionally in phthalic acid testing.

PROTECTIVE EQUIPMENT REQUIRED:

Vent hood.

FIRE HAZARDS:

Slight; when heated, it emits toxic fumes. Can react with oxidizers.

FIRST AID:

Skin & Eyes: Flush with water for 15 minutes.

Inhalation & Ingestion: See Physician.

CHEMICAL NAME: ANTIMONY TRIOXIDE

CLASS

TYPE

A

1

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

25 Antimony Trioxide

456 Oncor 75 RA

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

X

COMPOUND

DRY BLEND

PLASTICIZER

VINYL

PPM

-

-

MAINTENANCE

Mg/M³

0.5 (Sb)

0.75

LABORATORY

EFFECTS OF OVEREXPOSURE:

Prolonged excessive exposure may result in gastro-intestinal upset, nervous complaints, and inflammation of mucous membranes of nose and throat.

PURPOSE AND METHOD OF USE:

Used as a flame retardant additive in certain PVC compounds. It is poured by hand from paper bags into compound blenders.

PROTECTIVE EQUIPMENT REQUIRED:

Dust mask, cotton gloves.

FIRE HAZARDS:

Slight; when burned, it forms Sb₂O₄ and Sb₂O₅. Extinguish with dry chemical, water fog, CO₂.

FIRST AID:

Abnormal Ingestion: Call a physician at once. As first aid, induce vomiting, give milk and magnesium sulphate (Epsom Salt). External: Wash skin with soap and water. Eyes: Treat as a dust.



CHEMICAL NAME: BARIUM/CADMIUM COMPLEX					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)	EXPOSURE LIMITS			DEPARTMENT	
		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND	
397	Synpron 1438				DRY BLEND	
398	V-1313				PLASTICIZER	
402	Mark 1314				VINYL	
411	Mark 2045	PPM	-		MAINTENANCE	
412	Interstab R-4023	Mg/M ³	0.5 (Ba) 0.2 (Cd)	0.6 (Cd)		LABORATORY
401	Mark SC III-32A	EFFECTS OF OVEREXPOSURE: Many and Varied: Headache, incoordination, irritation, vomiting, abdominal pain, diarrhea, systemic toxic effects (heart, lung, brain).				

PURPOSE AND METHOD OF USE:

These materials are heat stabilizer additives to certain PVC compounds. Added to compound blenders in bulk, they include liquids and powders.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber apron, cotton gloves, dust mask with solid materials.

FIRE HAZARDS:

Slight; oxides of Barium, Cadmium formed on combustion. Extinguish with CO₂, dry chemical, water fog.

FIRST AID:

Eye: Flush with water for 15 minutes, Skin: Wash with soap and water, Ingestion: Consult physician Inhalation: Remove to fresh air.

CHEMICAL NAME: BARIUM CHLORIDE

CLASS

TYPE

A

1

RM CODE	TRADENAME(S)	EXPOSURE LIMITS			DEPARTMENT
		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)		COMPOUND
-	Barium Chloride				DRY BLEND
					PLASTICIZER
					VINYL
		PPM	-	X	MAINTENANCE
		Mg/M ³	0.5		LABORATORY
		EFFECTS OF OVEREXPOSURE: Highly toxic. May produce damage to heart, lungs, digestive tract, and central nervous system.			

PURPOSE AND METHOD OF USE:

Used in solution as a water testing reagent. Usage is minimal.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves.

FIRE HAZARDS:

Minimal hazard.

FIRST AID:

If Swallowed: Give 1 tablespoon of Epsom Salt in a glass of water. Induce vomiting by giving 1 tablespoon of salt in a glass of warm water. Repeat warm salt water until vomit fluid is clear. CALL A PHYSICIAN.

CHEMICAL NAME: BROMINE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Bromine		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	0.1	0.3		MAINTENANCE
		Mg/M ³	0.7	2	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Causes severe burns to eyes, nose, throat, lungs (pulmonary edema possible).			
PURPOSE AND METHOD OF USE: A Lab chemical retained for possible use in Bromine/water testing. Use is very low.						
PROTECTIVE EQUIPMENT REQUIRED: Vent hood, rubber gloves, faceshield, rubber apron.						
FIRE HAZARDS: Moderate; may ignite a combustible material upon contact. A very powerful oxidizer. Emits highly toxic fumes when heated, will react with water or steam.						
FIRST AID: <u>Call A Physician.</u> <u>Eyes or Skin:</u> Flush with water for 15 minutes. <u>Inhalation:</u> Remove to fresh air and give artificial respiration if necessary.						

CHEMICAL NAME: CARBON BLACK					CLASS	TYPE
					A	1
RM CODE	TRADE NAME(S)		EXPOSURE LIMITS			DEPARTMENT
444	Nuchar K-80		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
929	Carbon Black 83B104					DRY BLEND
950	F-5960 Black (Mupco)				X	PLASTICIZER
445	Darco S-51					VINYL
		PPM	-	-		MAINTENANCE
		Mg/M ³	3.5	7		LABORATORY
		EFFECTS OF OVEREXPOSURE: Many suspected effects, including heart, corneal (eye) and bronchial damage. Material suspected of being carcinogenic in nature.				
PURPOSE AND METHOD OF USE: Used as a color pigment in PVC compound production and as a water/plasticizer interface indicator during plasticizer production.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, cotton gloves.						
FIRE HAZARDS: Slight; when exposed to heat or flame. Avoid contact with strong oxidizing chemicals.						
FIRST AID: <u>SKIN/EYES</u>: Flush with water.						

CHEMICAL NAME: CATALYZED HYDRAZINE						CLASS	TYPE
						A	1
RM CODE	TRADENAME(S)			EXPOSURE LIMITS		DEPARTMENT	
				TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Catalyzed Hydrazine					DRY BLEND	
						PLASTICIZER	
						VINYL	
				PPM	1	-	X MAINTENANCE
				Mg/M ³	1.3	-	LABORATORY
				EFFECTS OF OVEREXPOSURE: Vapors irritating to eyes, nose, respiratory system. Direct contact results in caustic-type burns. Long-term overexposure may product liver/ blood damage. A suspected carcinogen.			
PURPOSE AND METHOD OF USE: Used as a boiler water treatment additive. Poured from drums into mixing vats, thence metered into water stream.							
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves, faceshield.							
FIRE HAZARDS: Moderate to severe when exposed to heat and/or oxidizing agents.							
FIRST AID: <u>Skin:</u> Wash with large volumes of water. <u>Eye:</u> Flush with large volumes of water. Consult eye physician immediately. <u>Ingestion:</u> CONSULT PHYSICIAN IMMEDIATELY.							



CHEMICAL NAME: CHLORINE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Chlorine					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	1	3	X	MAINTENANCE
		Mg/M ³	3	9		LABORATORY
	EFFECTS OF OVEREXPOSURE: Causes severe burns when inhaled. Can cause death if massive quantities are involved. Long-term exposure suspected of causing cumulative lung damage.					
PURPOSE AND METHOD OF USE: Used as a cooling tower water additive. Contained in pressured bottles and metered directly into water in a closed system.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves, chlorine gas mask.						
FIRE HAZARDS: Moderate; can react to cause fires or explosions upon contact with turpentine, ether, ammonia gas, hydrocarbons, hydrogen, and powdered metals.						
FIRST AID: CALL A PHYSICIAN, <u>EYES:</u> Flush with water, <u>SKIN:</u> Flush with water, <u>INHALATION:</u> Remove to safe area - if still breathing, place on back with head and back elevated, keep warm, quiet.						

CHEMICAL NAME: CHLOROFORM

CLASS

TYPE

A

1

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

COMPOUND

DRY BLEND

PLASTICIZER

VINYL

MAINTENANCE

LABORATORY

-

Chloroform

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

PPM

50

-

Mg/M³

240

-

X

EFFECTS OF OVEREXPOSURE:

An anesthesiac. May produce cumulate liver and kidney damage. A suspected carcinogen.

PURPOSE AND METHOD OF USE:

A Lab solvent used in small quantities 1-2 times each year in preparing gas chromatograph columns.

PROTECTIVE EQUIPMENT REQUIRED:

Vent Hood

FIRE HAZARDS:

Slight, when exposed to high heat; otherwise practically non-flammable.

FIRST AID:

CALL A PHYSICIAN; INHALATION: Remove to fresh air, give artificial respiration if necessary. INGESTION: Induce vomiting if conscious. Do not induce vomiting if unconscious. EYES/SKIN: Flush with water for 15 minutes.



CHEMICAL NAME: DIBASIC LEAD PHOSPHITE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
451	Oiled Dyphos					DRY BLEND
						PLASTICIZER
						VINYL
			PPM	-		MAINTENANCE
			Mg/M ³	0.2 (Pb)	0.45	LABORATORY
			EFFECTS OF OVEREXPOSURE: Lead poisoning. Damages liver, kidney, and blood cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation.			
PURPOSE AND METHOD OF USE: Used in large quantities as a heat stabilizer additive to certain PVC compounds. It is poured by hand from paper bags into compound blenders.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron. cotton gloves.						
FIRE HAZARDS: Moderate when exposed to high heat. There are no suitable extinguishing agents - isolate, scatter to cool and use sand to contain smoldering material.						
FIRST AID: <u>ABNORMAL INGESTION:</u> CONSULT PHYSICIAN AT ONCE. As first aid, induce vomiting, give milk and magnesium sulphate (Epsom Salt). <u>SKIN:</u> Wash with soap and water. <u>EYES:</u> Flush with water.						



CHEMICAL NAME: DIBASIC LEAD PHTHALATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
302	Dythall XL					DRY BLEND
303	Cyastab 988					PLASTICIZER
						VINYL
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.2(Pb)	0.45		LABORATORY
			EFFECTS OF OVEREXPOSURE: Lead poisoning. Damages liver, kidney, and blood cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation.			
PURPOSE AND METHOD OF USE: Used in large quantity as a heat stabilizer additive to certain PVC compounds. It is poured by hand from paper bags into compound blender.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron, cotton gloves.						
FIRE HAZARDS: Moderate when exposed to high heat. Extinguish with dry chemical, CO ₂ , water fog.						
FIRST AID: <u>ABNORMAL INGESTION:</u> CONSULT A PHYSICIAN AT ONCE, as first aid, induce vomiting, give milk and magnesium sulphate (epsom salt). <u>SKIN:</u> Wash with soap and water. <u>EYES:</u> Flush with water.						



CHEMICAL NAME: DIBASIC LEAD STEARATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
300	DS 207					DRY BLEND
						PLASTICIZER
						VINYL
			PPM	-		MAINTENANCE
			Mg/M ³	0.2 (Pb)	0.45	LABORATORY
			EFFECTS OF OVEREXPOSURE: Lead poisoning. Damages liver, kidney, and blood cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation.			
PURPOSE AND METHOD OF USE: Used as a compound lubricant additive in certain PVC compounds. It is poured by hand from paper bags into compound blenders.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron. cotton gloves.						
FIRE HAZARDS: Moderate when exposed to high heat. Extinguish with dry chemical, CO ₂ , water fog.						
FIRST AID: <u>ABNORMAL INGESTION:</u> CONSULT A PHYSICIAN AT ONCE, as first aid, induce vomiting, give milk and magnesium sulphate (Epsom Salt), <u>SKIN:</u> Wash with soap and water. <u>EYES:</u> Flush with water.						



CHEMICAL NAME: N,N - DIMETHYL FORMAMIDE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	N,N - Dimethyl Formamide				DRY BLEND	
					PLASTICIZER	
					VINYL	
			PPM	10		MAINTENANCE
			Mg/M ³	30	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Possible cumulative liver damage via inhalation and skin absorption.			
PURPOSE AND METHOD OF USE: A Lab chemical kept on hand as a substitute for Dimethyl Acetamide, which is used twice each week in testing carbon for use in VCM dosimetry.						
PROTECTIVE EQUIPMENT REQUIRED: Vent hood.						
FIRE HAZARDS: Moderate, when exposed to heat. Can react with oxidizers.						
FIRST AID: <u>INHALATION</u> : Remove from danger area and get prompt medical attention. <u>EYES/SKIN</u> : Flush with water for 15 minutes.						
VAB.0001053792						



CHEMICAL NAME: DIPHENYLAMINE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Diphenylamine					DRY BLEND
						PLASTICIZER
						VINYL
			PPM	-	-	MAINTENANCE
			Mg/M ³	10	20	X LABORATORY
			EFFECTS OF OVEREXPOSURE: Cumulative liver, kidney, bladder damage possible.			
PURPOSE AND METHOD OF USE: A Lab chemical intended (but not commonly used) for use in testing Methocel.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves.						
FIRE HAZARDS: Slight, when exposed to high heat. Extinguish with water, CO ₂ , dry chemical.						
FIRST AID: Contact physician in case of overexposure.						

CHEMICAL NAME: ETHYL ETHER					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Ethyl Ether				DRY BLEND	
					PLASTICIZER	
					VINYL	
			PPM	400		MAINTENANCE
			Mg/M ³	1200	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Narcosis and general anesthesiac effects. Irritant to skin and mucous membranes due to drying effect.			
PURPOSE AND METHOD OF USE: A Lab solvent used in small quantities in TLC testing and as an extraction solvent for testing materials made for Western Electric.						
PROTECTIVE EQUIPMENT REQUIRED: Vent hood.						
FIRE HAZARDS: Highly dangerous, in the presence of heat or flame. Extinguish with dry chemical or CO ₂ .						
FIRST AID: <u>INHALATION:</u> Remove to fresh air, apply artificial respiration if necessary. <u>Call a physician.</u> <u>INGESTION:</u> Call a physician.						

CHEMICAL NAME: HYDROCHLORIC ACID					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Hydrochloric Acid		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	5	5	X	MAINTENANCE
		Mg/M ³	7	7	X	LABORATORY
		EFFECTS OF OVEREXPOSURE: Highly corrosive. May be fatal if swallowed. Marked irritation of eyes, nose, throat.				
PURPOSE AND METHOD OF USE: Used in the Lab as an additive to the extraction solvent utilized during the analysis of calcium stearate on PVC resin.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves.						
FIRE HAZARDS: Low as such, however, material is highly corrosive to most metals with evolution of hydrogen gas, which is highly flammable when mixed with air.						
FIRST AID: <u>CALL A PHYSICIAN</u>; <u>SKIN</u>: Flood with water then water containing sodium bicarbonate. <u>EYES</u>: Flush with water for 15 minutes. <u>INGESTION</u>: <u>DO NOT GIVE EMETICS</u>. Give tap water, milk or milk of magnesia.						

CHEMICAL NAME: HYDROGEN PEROXIDE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Hydrogen Peroxide		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	1	2		MAINTENANCE
		Mg/M ³	1.4	2.8	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: A strong irritant. Can cause eye injury. Effects may be delayed.			
PURPOSE AND METHOD OF USE: A Lab chemical retained for possible use as a test reagent in solution. Actual use has been negligible.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves, faceshield, rubber apron.						
FIRE HAZARDS: Dangerous by chemical reaction with flammable materials. Avoid heat or shock. Extinguish with water.						
FIRST AID: <u>EYES/SKIN:</u> Flush with water for 15 minutes, for eyes, contact physician.						

CHEMICAL NAME: HYDROQUINONE

CLASS

TYPE

A

1

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

346

Hydroquinone

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

COMPOUND

DRY BLEND

PLASTICIZER

X

VINYL

PPM

-

-

Mg/M³

2

4

MAINTENANCE

LABORATORY

EFFECTS OF OVEREXPOSURE:

Cumulative corneal (eye) damage possible over long-term. A suspected carcinogen.

PURPOSE AND METHOD OF USE:

Used as a polymerization inhibitor additive to the recovery compressor seal water in the vinyl production area.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves.

FIRE HAZARDS:

Slight, when exposed to heat. Extinguish with dry chemical, CO₂, water spray.

FIRST AID:

In case of eye contact, flush with water for 15 minutes and contact a physician.



CHEMICAL NAME: IODINE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Iodine					DRY BLEND
						PLASTICIZER
						VINYL
			PPM	0.1	0.1	MAINTENANCE
			Mg/M ³	1	1	X LABORATORY
			EFFECTS OF OVEREXPOSURE: Highly toxic. Can produce severe damage to eyes, nose, throat and lungs (pulmonary edema possible).			
PURPOSE AND METHOD OF USE: A Lab material used in minute amounts on rare occasions in TLC work and in running "Iodine Value" tests on soya epoxy.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves.						
FIRE HAZARDS: Dangerous; when heated, it emits highly toxic fumes of iodine and iodine compounds; can react vigorously with reducing materials.						
FIRST AID: <u>CONTACT A PHYSICIAN:</u> <u>EYES/SKIN:</u> Flush with water for 15 minutes, <u>INHALATION:</u> Remove to safe area, begin artificial respiration, if necessary.						

CHEMICAL NAME: LEAD CARBONATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
851	Halcarb 20 EP		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
						DRY BLEND
						PLASTICIZER
						VINYL
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.2 (Pb)	0.45		LABORATORY
			EFFECTS OF OVEREXPOSURE: Lead poisoning. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation. Damages liver, kidney, and blood cells.			
PURPOSE AND METHOD OF USE: A material used as a heat stabilization additive in certain PVC compounds.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron, cotton gloves.						
FIRE HAZARDS: Moderate, when exposed to high heat. Extinguish with dry chemical, CO ₂ , water fog.						
FIRST AID: <u>ABNORMAL INGESTION:</u> Consult a physician at once, <u>EYES:</u> Flush with water, <u>SKIN:</u> Wash with soap and water.						

CHEMICAL NAME: LEAD CHLOROSILICATE COMPLEX					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
415	Lectro 125 M		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
416	Lectro SPL-125					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	See Lead and Silicon			MAINTENANCE
		Mg/M ³	Dioxide			LABORATORY
			EFFECTS OF OVEREXPOSURE: Lead Poisoning. Damages liver, kidney and blood cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation.			
PURPOSE AND METHOD OF USE: Used as a heat stabilization additive in certain PVC compounds.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron, cotton gloves.						
FIRE HAZARDS: Moderate, when exposed to high heat. Extinguish with dry chemical, CO ₂ , water fog.						
FIRST AID: <u>ABNORMAL INGESTION:</u> Consult a physician at once, <u>EYES:</u> Flush with water for 15 minutes, <u>SKIN:</u> Wash with soap and water.						

CHEMICAL NAME: LEAD CHROMATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
988	Yellow X1810					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.1	0.1		LABORATORY
			EFFECTS OF OVEREXPOSURE: Lead Poisoning. Damages liver, kidney and blood cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation.			
PURPOSE AND METHOD OF USE: A yellow color pigment used in certain PVC compounds.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron, cotton gloves						
FIRE HAZARDS: Moderate, when exposed to high heat. Extinguish with water.						
FIRST AID: <u>ABNORMAL INGESTION:</u> Consult a physician at once. <u>EYES:</u> Flush with water for 15 minutes, <u>SKIN:</u> Wash with soap and water.						

CHEMICAL NAME: LEAD CHROMATE/LEAD SULPHATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
986	Yellow X2891		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
						DRY BLEND
						PLASTICIZER
						VINYL
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.1	0.1		LABORATORY
		EFFECTS OF OVEREXPOSURE: Lead Poisoning. Damages liver, kidney and blood cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation. Lead Chromate is a suspected carcinogen.				
PURPOSE AND METHOD OF USE: A yellow color pigment used in certain PVC compounds.						
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, rubber apron, cotton gloves.						
FIRE HAZARDS: Moderate, when exposed to high heat. Extinguish with water.						
FIRST AID: <u>ABNORMAL INGESTION</u>: Consult a physician at once. <u>EYES</u>: Flush with water for 15 minutes, <u>SKIN</u>: Wash with soap and water.						



CHEMICAL NAME: MANGANOUS SULPHATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Manganous Sulphate				DRY BLEND	
					PLASTICIZER	
					VINYL	
			PPM	-		MAINTENANCE
			Mg/M ³	5 (Mn)	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Cumulative kidney and central nervous system damage possible.			
PURPOSE AND METHOD OF USE: A Lab material used weekly in dilute solution as a test reagent during waste water testing.						
PROTECTIVE EQUIPMENT REQUIRED: None						
FIRE HAZARDS: Slight						
FIRST AID: <u>INHALATION:</u> Remove to fresh air. <u>INGESTION:</u> If conscious, induce vomiting and consult a physician.						

CHEMICAL NAME: MERCURIC ACETATE

CLASS

TYPE

A

1

RM
CODE

TRADENAME(S)

EXPOSURE LIMITS

DEPARTMENT

-

Mercuric Acetate

TOXIC
LIMIT
VALUE
(TLV)

SHORT-TERM
EXPOSURE
LIMIT
(STEL)

COMPOUND

DRY BLEND

PLASTICIZER

VINYL

PPM

-

-

MAINTENANCE

Mg/M³

0.1

0.1

X

LABORATORY

EFFECTS OF OVEREXPOSURE:

Mercury poisoning, may be fatal if swallowed. Symptoms include tremors, headache, fatigue, loss of memory, insomnia. Affects nervous system, kidneys, heart, lungs.

PURPOSE AND METHOD OF USE:

A Lab chemical retained for possible future use as a test reagent. Current use is negligible.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves, Scott Air Pak - Use during fire.

FIRE HAZARDS:

Highly dangerous, emits mercury vapor when heated. Remove personnel from area immediately. Enter area only with Scott Air Pak during releases.

FIRST AID:

CALL A PHYSICIAN - Give milk, then tablespoon of salt in a glass of warm water and repeat until vomit fluid is clear. Repeat milk.

CHEMICAL NAME: MERCURIC OXIDE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Mercuric Oxide				DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.1	0.1	X	LABORATORY
		EFFECTS OF OVEREXPOSURE: Mercury poisoning, may be fatal if swallowed. Symptoms include tremors, headache, fatigue, loss of memory, insomnia. Affects nervous system, kidneys, hear, lungs.				
PURPOSE AND METHOD OF USE: A Lab chemical used in solution as a test reagent in weekly waste water "COD" tests.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber Gloves, Scott Air Pak - use during fire.						
FIRE HAZARDS: Highly dangerous, <u>emits mercury vapor when heated</u> . Remove personnel from release area, enter only with Scott Air Pak.						
FIRST AID: <u>CALL A PHYSICIAN</u> -if swallowed <u>if conscious</u> , induce vomiting by giving a tablespoon of salt in a glass of warm water and repeat until vomit fluid is clear. Give milk. Keep warm and quiet.						

CHEMICAL NAME: MERCURIC SULPHATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Mercuric Sulphate					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.1	0.1	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Mercury poisoning, may be fatal if swallowed. Symptoms include tremors, headache, fatigue, loss of memory, insomnia. Affects nervous system, kidneys, heart, lungs			

PURPOSE AND METHOD OF USE:

A Lab test reagent formerly used in waste water testing and retained for possible reuse.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves, Scott Air Pak - Use during fire.

FIRE HAZARDS:

Highly Dangerous, emits mercury vapor when heated. Remove personnel from release area, enter only with Scott Air Pak.

FIRST AID:

CALL A PHYSICIAN. If swallowed, if conscious, induce vomiting by giving a tablespoon of salt in a glass of warm water. Repeat until vomit fluid is clear. Give milk.
Keep warm and quiet.

CHEMICAL NAME: METHANOL					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Methanol					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	200	250		MAINTENANCE
		Mg/M ³	260	325	X	LABORATORY
	EFFECTS OF OVEREXPOSURE: Narcosis, eye damage (optic neuritis). Cardiac (heart) depression may occur.					

PURPOSE AND METHOD OF USE:

Minimal use in dissolving samples for G.C. analysis and as a heat transfer fluid in the "Brittle Point" test.

PROTECTIVE EQUIPMENT REQUIRED:

None

FIRE HAZARDS:

Dangerous, when exposed to heat. Extinguish with CO₂, dry chemical.

FIRST AID:

CONSULT PHYSICIAN FOR EXCESSIVE EXPOSURE

EYES/SKIN: Flush with water for 15 minutes, INHALATION: Remove to safe area, give artificial respiration, if necessary.

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CHEMICAL NAME: METHYL ACETATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Methyl Acetate				DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	200	250		MAINTENANCE
		Mg/M ³	610	760	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Irritant to eyes, nose, throat, lungs. Can cause giddiness, stupor, depression.			

PURPOSE AND METHOD OF USE:

A Lab solvent retained for infrequent use.

PROTECTIVE EQUIPMENT REQUIRED:

Vent hood.

FIRE HAZARDS:

Dangerous, when exposed to heat.

FIRST AID:

INHALATION: Remove to safe area, give artificial respiration if necessary.

EYES: Flush with water for 15 minutes. SKIN: Flush with water.

CHEMICAL NAME: METHYLENE CHLORIDE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Methylene Chloride		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	500	1000		MAINTENANCE
		Mg/M ³	-	-	X	LABORATORY
		EFFECTS OF OVEREXPOSURE: Harmful if inhaled. May cause irritation. Eye damage possible with long-term use.				
PURPOSE AND METHOD OF USE: A Lab solvent used in preparing G.C. columns and joining plexiglass parts. Usage is low.						
PROTECTIVE EQUIPMENT REQUIRED: Vent hood.						
FIRE HAZARDS: None under ordinary conditions.						
FIRST AID: <u>INHALATION:</u> Remove to fresh air, give artificial respiration if necessary. Call a physician. <u>EYES/SKIN:</u> Flush with water for 15 minutes. For eyes, call a physician.						

CHEMICAL NAME: NITRIC OXIDE					CLASS	TYPE
					A	1
RM CODE	TRADE NAME(S)			EXPOSURE LIMITS		DEPARTMENT
-	Nitric Oxide			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND
						DRY BLEND
						PLASTICIZER
						X VINYL
		PPM	25	35		MAINTENANCE
		Mg/M ³	30	45		LABORATORY
				EFFECTS OF OVEREXPOSURE: Principal hazard is inhalation of nitrogen dioxide, formed when nitric oxide contacts air (oxygen). Excess inhalation of nitrogen dioxide can produce pulmonary edema within hours of inhalation.		
PURPOSE AND METHOD OF USE: Used as an emergency polymerization terminator in the production of PVC. It is stored in pressured bottles and used in a closed system.						
PROTECTIVE EQUIPMENT REQUIRED: Air-line respirators, Scott Air Paks - use during emergencies.						
FIRE HAZARDS: Dangerous when heated. Can react with water or steam to product heat and corrosive fumes. Can react vigorously with reducing materials.						
FIRST AID: <u>CONTACT A PHYSICIAN IF INHALED:</u> Remove to fresh air, apply artificial respiration if necessary.						

CHEMICAL NAME: NITROBENZENE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Nitrobenzene					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	1	2		MAINTENANCE
		Mg/M ³	5	10	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Skin contact causes a blood deficiency known as methemoglobinemia (oxidized hemoglobin).			
PURPOSE AND METHOD OF USE: A Lab solvent formerly used in viscosity testing. Presently retained for possible reuse.						
PROTECTIVE EQUIPMENT REQUIRED: Vent hood, rubber gloves, rubber apron.						
FIRE HAZARDS: Moderate, when exposed to heat. Extinguish with water fog, CO ₂ , dry chemical.						
FIRST AID: INGESTION: If conscious, induce vomiting with an emetic such as mustard and water. EYES: Flush with water for 15 minutes. <u>SKIN</u> : Remove contaminated clothing, wash with soap and water.						

CHEMICAL NAME: PHENOL					CLASS	TYPE
					A	1
RM CODE	TRADE NAME(S)		EXPOSURE LIMITS		DEPARTMENT	
99	Pallet Glue		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	5	10	X	MAINTENANCE
		Mg/M ³	19	38		LABORATORY
			EFFECTS OF OVEREXPOSURE: Marked irritation of eye, nose, throat, lungs. Cumulative liver, lung, kidney damage possible. A suspected carcinogen.			

PURPOSE AND METHOD OF USE:

This Phenol-containing liquid is used to glue 50-pound bags of finished product (PVC and PVC Compounds) together as they are formed into pallets for subsequent storage/shipment.

PROTECTIVE EQUIPMENT REQUIRED:

None

FIRE HAZARDS:

Dangerous, when heated, it emits toxic fumes, can react with oxidizers. Extinguish with CO₂, dry chemical.

FIRST AID:

CONSULT A PHYSICIAN. For any contact, flush with water for 15 minutes.

CHEMICAL NAME: POTASSIUM CHROMATE					CLASS	TYPE
					A	1
RM CODE	TRADE NAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Potassium Chromate		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	-	-		MAINTENANCE
		Mg/M ³	0.1	0.1	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Causes irritation. Harmful if inhaled or swallowed. May cause rash or external ulcers. Material suspected as being carcinogenic.			
PURPOSE AND METHOD OF USE: A Lab material retained for possible use as a test reagent. Current usage is negligible.						
PROTECTIVE EQUIPMENT REQUIRED: Rubber gloves, rubber apron.						
FIRE HAZARDS: Slight. Extinguish with water, CO ₂ , dry chemical.						
FIRST AID: <u>EYES:</u> Flush with water for 15 minutes; call a physician. <u>SKIN:</u> Flush with water. <u>INHALATION:</u> Remove to fresh air, give artificial respiration if necessary, call a physician. <u>INGESTION:</u> Induce vomiting, <u>CALL A PHYSICIAN AT ONCE.</u>						

CHEMICAL NAME: POTASSIUM DICHROMATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Potassium Dichromate		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM	-	-	MAINTENANCE	
		Mg/M ³	0.1	0.1	X	LABORATORY
			EFFECTS OF OVEREXPOSURE:			
			Causes irritation. Harmful if inhaled or swallowed. May cause rash or external ulcers. Material suspected of being carcinogenic.			
PURPOSE AND METHOD OF USE:						
A Lab test reagent used in solution during weekly waste water testing.						
PROTECTIVE EQUIPMENT REQUIRED:						
None						
FIRE HAZARDS:						
Moderate by chemical reaction. A powerful oxidizer. Extinguish with CO ₂ , dry chemical.						
FIRST AID:						
EYES/SKIN: Flush with water for 15 minutes, call a physician. INHALATION: Remove to fresh air, give artificial respiration if necessary, call a physician.						

CHEMICAL NAME: PHTHALIC ANHYDRIDE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)		COMPOUND
485	Phthalic Anhydride (Bag)					DRY BLEND
486	Phthalic Anhydride (Molten)				X	PLASTICIZER
					X	VINYL
		PPM	2	4		MAINTENANCE
		Mg/M ³	12	24	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Causes skin and eye burns. The vapor and dust is irritating. Long term exposure may cause allergic reactions and eye damage.			
PURPOSE AND METHOD OF USE: Used as a principal raw material in the esterification process of producing plasticizer. Anticipated for Lab use in the "Phthalic Color" testing of raw material alcohols.						
PROTECTIVE EQUIPMENT REQUIRED: Air-line respirator, cotton gloves.						
FIRE HAZARDS: Slight, when exposed to high heat. Extinguish with dry chemical, water spray. Use Scott Air Paks to prevent inhalation.						
FIRST AID: <u>CALL A PHYSICIAN.</u> <u>SKIN/EYES:</u> Flush with water for 15 minutes. <u>INHALATION:</u> Remove to fresh air, apply artificial respiration if necessary.						



CHEMICAL NAME: SILVER SULPHATE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
-	Silver Sulphate		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
					DRY BLEND	
					PLASTICIZER	
					VINYL	
		PPM				MAINTENANCE
		Mg/M ³	0.01	0.03	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Silver poisoning possible over long-term exposure. Dark slate gray color over face, forehead, neck, hands, and forearms. Localized blue spots on skin.			

PURPOSE AND METHOD OF USE:

A Lab test reagent used in solution during weekly waste water testing.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves.

FIRE HAZARDS:

Slight. Use any media suitable for the supporting fire.
Use agents suitable for extinguishing primary fire.

FIRST AID:

ANY CONTACT: Wash with water for 15 minutes.

CHEMICAL NAME: SULFURIC ACID					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Sulfuric Acid					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	-	-	X	MAINTENANCE
		Mg/M ³	1	-	X	LABORATORY
			EFFECTS OF OVEREXPOSURE: Causes severe burns. May be fatal if swallowed.			

PURPOSE AND METHOD OF USE:

- Added to waste water treatment lagoons in large quantities as needed to regulate PH. Handled in closed system of tanks and piping.
- Used weekly in the Lab during waste water "COD" testing and in TLC analysis.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves, faceshield, rubber boots, rubber coat, rubber pants.

FIRE HAZARDS:

Moderate to Dangerous; when heated it emits highly toxic fumes, will react with water or steam to product heat, can react with oxidizing or reducing materials. DO NOT use water to extinguish if the water can get into concentrated acid. Use Scott Air Pak. Purge all vessels or lines that have contained the material before opening.

FIRST AID:

ANY CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. Call Physician. INGESTION: DO NOT GIVE EMETICS! If conscious, wash mouth out with water. Drink milk - if not available, drink as much water as possible.

CHEMICAL NAME: SILICON DIOXIDE, AMORPHOUS					CLASS	TYPE	
					A	1	
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT		
816	Filtrol K 85		TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND		
321	Hyflo Super Cel				DRY BLEND		
					X	PLASTICIZER	
						VINYL	
		PPM	-	-	MAINTENANCE		
		Mg/M ³	5 (total)	-	LABORATORY		
			2 (respirable)	-			
			EFFECTS OF OVEREXPOSURE: Silicosis possible over long-term exposure				
PURPOSE AND METHOD OF USE: A de-coloring additive to plasticizer. Charged, by hand, from bags, into high-color batches.							
PROTECTIVE EQUIPMENT REQUIRED: Dust mask, cotton gloves							
FIRE HAZARDS: Slight							
FIRST AID: N/A							

CHEMICAL NAME: TRIBASIC LEAD SULPHATE						CLASS	TYPE
						A	I
RM CODE	TRADENAME(S)			EXPOSURE LIMITS			DEPARTMENT
				TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	X	COMPOUND
852	Tribase EXL						DRY BLEND
853	Tribase XL (Non-Dusting)						PLASTICIZER
856	Tribase						VINYL
405	Cyastab 563 (Non-Dusting)	PPM	-	-		MAINTENANCE	
406	Cyastab 563	Mg/M ³	0.2 (Pb)	0.45		LABORATORY	
408	Cyastab 810	EFFECTS OF OVEREXPOSURE: Lead poisoning. Damages liver, kidney, and blook cells. Symptoms include gastric upsets, cramps, fatigue, loss of gum pigmentation.					
407	McGregor 810						

PURPOSE AND METHOD OF USE:

Used in large quantities as a heat stabilizer additive to PVC compounds. It is poured, by hand, from paper bags into compound blenders.

PROTECTIVE EQUIPMENT REQUIRED:

Dust mask, rubber apron, cotton gloves.

FIRE HAZARDS:

Moderate, when exposed to high heat. Extinguish with dry chemical, CO₂, water fog.

FIRST AID:

ABNORMAL INGESTION: Consult physician at once. EYES: Flush with water.

SKIN: Wash with soap and water.

CHEMICAL NAME: TRICHLOROETHYLENE					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)			EXPOSURE LIMITS		DEPARTMENT
				TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND
854	TCE					DRY BLEND
						PLASTICIZER
						VINYL
				PPM	100	200
				Mg/M ³	-	-
				EFFECTS OF OVEREXPOSURE: Narcosis and acute cardiac failure possible. Following inhalation of large amounts, kidney and liver damage possible. Material suspected of being carcinogenic.		

PURPOSE AND METHOD OF USE:

A solvent formerly used as a resin dryer screen cleaning medium. Current use is negligible.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves.

FIRE HAZARDS:

Low, when exposed to heat. Extinguish with water fog.

FIRST AID:

EYES/SKIN: Flush with water and get medical attention. INHALATION: Remove to fresh air, apply artificial respiration if necessary, contact a physician. INGESTION: DO NOT INDUCE VOMITING! Call a physician immediately.

CHEMICAL NAME: QUATERNARY AMMONIUM, AMINES, ORGANOTINS					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS		DEPARTMENT	
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)	COMPOUND	
-	Biosperse 201					DRY BLEND
						PLASTICIZER
						VINYL
		PPM	-	-	X	MAINTENANCE
		Mg/M ³	0.1	-		LABORATORY
	EFFECTS OF OVEREXPOSURE: May cause skin/eye irritation. Swallowing may be fatal.					

PURPOSE AND METHOD OF USE:

Used as a cooling tower water treatment additive for the control of microbial growth.
Poured from drums into water.

PROTECTIVE EQUIPMENT REQUIRED:

Rubber gloves, faceshield.

FIRE HAZARDS:

Slight. Extinguish supporting fires with CO₂, dry chemical.

FIRST AID:

SKIN: Wash with plenty of water. EYES: Flush with water for 15 minutes and obtain medical attention. INGESTION: Induce vomiting and call physician.

CHEMICAL NAME: VINYL CHLORIDE MONOMER					CLASS	TYPE
					A	1
RM CODE	TRADENAME(S)		EXPOSURE LIMITS			DEPARTMENT
			TOXIC LIMIT VALUE (TLV)	SHORT-TERM EXPOSURE LIMIT (STEL)		COMPOUND
864	VCM - B.F. Goodrich					DRY BLEND
865	VCM - Uniroyal					PLASTICIZER
866	VCM - Dow				X	VINYL
867	VCM - Shell	PPM			1	5
868	VCM - Lake Charles	Mg/M ³	-	-	X	LABORATORY
869	VCM - Allied		EFFECTS OF OVEREXPOSURE: VCM is a cancer-suspect agent, with the liver being the principal target organ.			
870	VCM - Monochem					

PURPOSE AND METHOD OF USE:

Used as a principal raw material in the manufacture of polyvinyl chloride (PVC).
 Used daily in Lab, in low quantities, as a reference standard during vinyl chloride monomer testing.

PROTECTIVE EQUIPMENT REQUIRED:

1 - 10 ppm: Canister gas mask.
 10 - 1000 ppm: Air-line respirator.
 1000+ or unknown: Scott Air Pak (Pressure demand)

FIRE HAZARDS:

Very dangerous; when exposed to heat. It emits highly toxic fumes, can react vigorously with oxidizing materials. EXTINGUISH with dry chemical, water spray/fog. Use Scott Air Paks.

FIRST AID:

INHALATION: Remove from exposure, apply artificial respiration if necessary.
SKIN: Flush spills with water immediately, remove contaminated clothing.