

# SAFETY DATA SHEET



DATE ISSUED :	11/23/2020
SDS REF. No :	X6A79-CLE33573

## X6A79-CLE33573 CLEAR GLOSS 2K ACRYLIC POLYURETHANE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** X6A79-CLE33573 CLEAR GLOSS 2K ACRYLIC POLYURETHANE  
**PRODUCT CODE:**  
**PRODUCT USE:** X6A79-CLE33573  
 Industrial Solventborne Paint

**Endura-Clad Coatings Brand Names / AKA:** "Chem-Bake 1501 Activator", "1501 Activator"  
 "Chem-Bake 3:1 Activator"

**MANUFACTURED for**  
**Endura-Clad Coatings by:**  
 Cardinal Industrial Finishes 1329  
 Potrero Ave  
 S. El Monte, CA,  
 626 444-9274

**24 HR. EMERGENCY TELEPHONE NUMBER**  
**CHEMTREC (US Transportation):** (800)424-9300  
**CHEMTREC (International Transportation):** 1(202)483-7616  
**WEB:** WWW.CARDINALPAINT.COM

### 2. HAZARDS IDENTIFICATION

#### PICTOGRAMS



**SIGNAL WORD :** DANGER

#### HAZARD STATEMENTS :

H226 Flammable liquid and vapor.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS :

P264 Wash thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P403 Store in a well-ventilated place.  
 S36 Wear suitable protective clothing.  
 S37 Wear suitable gloves.  
 R40 Limited evidence of a carcinogenic effect.  
 P233 Keep container tightly closed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
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Acetone	25% - 30%	67-64-1	
Parachlorobenzotrifluoride	15% - 20%	98-56-6	
Ethyl 3-Ethoxypropionate	5% - 10%	763-69-9	
Propionic Acid, n-Butyl ester	1% - 5%	590-01-2	

#### 4. FIRST AID MEASURES

##### Description of first aid measures.

**EYES CONTACT :** Flush with large quantities of water for 15 to 30 minutes. Remove contact lenses. Keep eyes wide open while rising. If eye irritation persists: Get medical attention.

**SKIN CONTACT :** Wash exposed area with mild soap and water for 15 to 30 minutes. Remove contaminated clothing. Repeated exposure may cause dryness or cracking.

**INGESTION :** Rinse mouth. Do NOT induce vomiting. Keep victim warm and seek immediate attention.

**INHALATION :** Remove to fresh air and keep in a position comfortable to breath. Call a doctor/physician if you feel unwell. Get medical attention.

**Most important symptoms and effects, both acute and delayed.** Symptoms/injuries: Eye irritation

Symptoms/injuries after inhalation: May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Cause serious eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed.

If medical advise is needed, have product container or label on hand.

#### 5. FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA :** In the event of a fire, use specifically suitable extinguishing agents. Suitable extinguishing media: Foam, alcohol resistant foam, CO2, water fog. Unsuitable extinguishing media: Do not use heavy water stream. A heavy water stream may spread burning liquid.

**FIRE FIGHTING PROCEDURE :** Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure modes.

**UNUSUAL FIRE AND EXPLOSION HAZARD :** Fire hazard: Highly flammable/liquid or vapor.

Explosive hazard: May form flammable/explosive vapor-air mixture.

#### 6. ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :

General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

##### FOR NON-EMERGENCY PERSONNEL :

For non-Emergency procedures: Evacuate unnecessary personnel.

##### FOR EMERGENCY RESPONDERS :

Equip cleanup crew with proper protection. Avoid breathing fume, vapors.

##### ENVIRONMENTAL PRECAUTIONS :

Prevent entry to sewers and public waters.

##### METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP :

Collect damaged aerosols and use absorbent and/or inert material, then place in suitable container.

#### 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING :** Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when you are leaving work. Provide good ventilation in process area to prevent formation of vapor. No smoking. Use only non-sparking tools. Use outdoors or in a well ventilated area. Avoid breathing fume, vapors.

Hygiene measures: Wash Skin thoroughly after handling.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES :** Storage conditions: Store in a dry, cool and well-ventilated place away from: Heat sources. Direct sunlight.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight. Heat Sources.

## 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

Acetone(67-64-1)		
USA OSHA	OSHA TWA (Table Z-1)	1,000 ppm, 2,400 mg/m3
USA NIOSH	NIOSH TWA	250 ppm, 590 mg/m3
USA NIOSH	NIOSH STEL (Table Z-1)	1,000 ppm, 2,400 mg/m3
USA ACGIH	ACGIH TWA TLV	250 ppm, 590 mg/m3
USA ACGIH	ACGIH STEL TLV	500 ppm, 1187 mg/m3
Dibutyltin Dilaurate(77-58-7)		
USA ACGIH	ACGIH TWA	0.1 mg/m3
USA ACGIH	ACGIH STEL	0.2 mg/m3
USA OSHA	OSHA PEL (Table Z-1)	0.1 mg/m3
USA OSHA	OSHA TWA (Table Z-1A)	0.1 mg/m3
USA NIOSH	NIOSH REL	0.1 mg/m3
Lithium Chloride(7447-41-8)		
USA OSHA	OSHA	Not Established.
n-Methyl-2-pyrrolidone(872-50-4)		
USA OSHA	OSHA TWA	N/E
USA ACGIH	ACGIH PEL	N/E
Parachlorobenzotrifluoride(98-56-6)		
USA ACGIH	USA ACGIH	Contains no substances with exposure limit values.

## PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION :** If TLV of the product or any component is exceeded, a NIOSH approved dust respirator is advised in absence of environmental control. OSHA Regulations also permit other NIOSH dust respirators under specified conditions. (See your Safety Equipment Supplier) Engineering or administrative controls should be implemented to reduce exposure.

**HAND PROTECTION REMARKS :** The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**EYES PROTECTION :** Eye wash bottle with pure water.  
Tightly fitting safety goggles.  
Where face-shield and protective suit for abnormal processing problems.

**SKIN AND BODY PROTECTION :** Wear impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**WORK HYGIENIC PRACTICES:** When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	:	Liquid
<b>Color</b>	:	Clear
<b>Odor</b>	:	Characteristic. Sweet. Mint like.
<b>Odor threshold</b>	:	No data available.
<b>pH</b>	:	N/A – See Technical Data Sheet
<b>Evaporation rate</b>	:	Slower Than Ether
<b>Melting point</b>	:	-94.7 C (-138.46 F)
<b>Freezing point</b>	:	No data available.
<b>Boiling point</b>	:	133.0 deg F to 331.0 deg F

<b>Flash point</b>	:	-4 deg F
<b>Lower explosion limit</b>	:	0.9
<b>Upper explosion limit</b>	:	12.8
<b>Vapor pressure</b>	:	185 mm Hg
<b>Vapor density</b>	:	Heavier than air
<b>Relative density</b>	:	No data available.
<b>Density</b>	:	8.5761
<b>Solubility</b>	:	No data available.
<b>Partition coefficient: n-octanol/water</b>	:	No data available.
<b>Autoignition temperature</b>	:	No data available.
<b>Decomposition temperature</b>	:	No data available.

## 10. STABILITY AND REACTIVITY

**REACTIVITY :** No dangerous reaction known under conditions of normal use.

**CHEMICAL STABILITY :** Stable under normal conditions.

**CONDITIONS TO AVOID :** Heat, flames and sparks. Extremely high temperatures and direct sunlight.

**INCOMPATIBLE MATERIALS :** Avoid contact with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## 11. TOXICOLOGICAL INFORMATION

Acetone(67-64-1)	
LD50 (rat) Oral	5,800 mg/kg; Symptoms: tremors
LC50 (rat) Inhalation	76 mg/l (4 h exposure)
LD50 Dermal	>7,426 mg/kg
Skin Corrosion/Irritation	Species: Rabbit; Exposure Time: 24 h; Classification: Not irritating to skin. Method: In vivo. Result: Mild irritation. Remarks: Repeated or prolonged contact with the mixture may cause removal natural fat from the skin resulting in desiccation of the skin.
Serious Eye Damage/Eye Irritation	Species: Rabbit; Result: Slightly irritating to eyes. Exposure time: 24 h; Classification: Irritating to eyes. Remarks: Eye irritation.
Respiratory or Skin Sensitization	Test Type: Maximization test, Species: guinea pig; Assessment: Does not cause skin sensitization. Result: Did not cause sensitization on laboratory animals.
Germ Cell Mutagenicity	Test Type: Mammalian cell gene mutation assay. Test Species: Mouse Lymphoma: Metabolic Activation: Without metabolic activation. Method: OECD Guideline 476; Result: negative; Test Type: Ames test; Metabolic Activation: Without metabolic activation. Method: OECD Guideline 471; Result: negative; Test Type: Chromosome aberration test in vitro; Test Species: Chinese Hamster Ovary (CHO): Metabolic Activation: Without metabolic activation. Method: OECD Guideline 473; Result: negative; Genotoxicity in vivo: Test Type: I vivo micronucleus test. Test Species: Mouse: Application Route: Oral, Exposure: 13 wks. Dose: 5,000, 10,000, 20,000 ppm; Result: negative
Germ Cell Mutagenicity Assessment	Animal testing did not show any mutagenic effects.
Carcinogenicity	Species: Mouse (female): Application Route: Dermal; Exposure Time: .365 d (90%) or 424 d (100%); Dose: 0.1ml 90(71mg) or 100% (79mg); Frequency of Treatment: 3 times a wk. NOAEL: 79; Result: Did not display carcinogenic properties. Carcinogenicity-Assessment: Not classified as a human carcinogen.
Reproductive Toxicity	Effects on Fertility: Species: Rat (male): Application Route: Oral; Dose: 0, 5,000, 10,000 mg/l; Frequency of Treatment: 7 days/week; General Toxicity - Parent: LOAEL: 10,000; Fertility: 10,000; Effects on Fetal Development: Species: Rat; Application Route: Inhalation; Dose: 0, 440, 2200, 11,000 ppm; Frequency of Treatment: 7 days/week; General Toxicity Material: NOAEC: 2,200 ppm; Teratogenicity: NOAEC: 2,200 ppm; Embryo-fetal Toxicity: NOAEC: 2,200 ppm; Result: No teratogenic potential. GLP: No data available. Reproductive Toxicity Assessment: Did not show teratogenic effects in animal experiments.
STOT - Single Exposure	Exposure routes: Inhalation (vapor); Assessment: May cause drowsiness or dizziness.
STOT- Repeated Exposure	No data available.
Repeated Dose Exposure	Species: Mouse (male): NOAEL: 20,000; Application Route: Oral; Exposure Time: 13 wks. Number of Exposures: daily; Dose: 1250, 2500, 5000, 10000, 20000; Method OECD Test Guideline 408, GLP: No data available. Species: Mouse (female): NAOEL: 20000; LAOEL: 50000; Application Route: Oral; Exposure Time: 13 wks. Number of Exposures: daily; Dose: 1250, 2500, 5000, 10000, 20000; Method OECD Test Guideline 408, GLP: No data

	available; Repeated Dose Toxicity Assessment: Causes mild skin irritation. Causes serious eye irritation.
Aspiration Toxicity	Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Concentrations substantially above TLV value may cause narcotic effects. Solvents may degrease the skin.
<b>Dibutyltin Dilaurate(77-58-7)</b>	
LD50 - Rat (Ingestion)	> 2,000 mg/kg
Inhalation	No data is available on the product itself.
LD50 - Rabbit (Dermal)	> 2,000 mg/kg, Method: Estimated.
Eye Irritation/Corrosion	Severe eye irritation.
Skin Irritation/Corrosion	Severe skin irritation. Corrosive to the skin of a rabbit.
Chronic Health Hazard	Dibutyltin compounds have shown reproductive and immunotoxic effects in laboratory animals. Abnormalities noted at necropsy of animals treated with 2000 mg/kg of dibutyltin dilaurate were hemorrhagic lungs, dark liver, dark kidneys, hemorrhage of gastric mucosa, hemorrhage of the large and small intestines, enlarged bile duct and behavioral and central nervous system effects. Decreased fertility was seen in hens following dietary administration equal to 78 mg/kg.
<b>Ethyl 3-Ethoxypropionate(763-69-9)</b>	
LD50 Oral Acute Toxicity	> 5,000 mg/kg; Rat (Male); (OECD Test Guideline 401)
LD50 Oral	4,309 mg/kg; Rat (female); (OECD Test Guideline 401)
LC50 Inhalation	> 998 ppm; Rat (male); 6 h - (OECD Test Guideline 403)
LD50 Dermal	4,080 mg/kg; Rabbit (male); (OECD Test Guideline 402)
LD50 Dermal	4,680 mg/kg; Rabbit (female); (OECD Test Guideline 402)
Skin Corrosion/Irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious Eye Damage/Eye Irritation	Eyes - Rabbit Result: No eye irritation - 24 h (OECD Test Guideline 405)
Respiratory or Skin Sensitization	Guinea pig Result: Does not cause skin sensitization. (OECD Test Guideline 406)
Germ Cell Mutagenicity	S. typhimurium Result: negative
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. 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. 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.
Reproductive Toxicity	No data available.
Specific Target Organ Toxicity - Single Exposure	No data available.
Specific Target Organ Toxicity - Repeated Exposure	No data available.
Aspiration Hazard	No data available.
Additional Information	Repeated Dose Toxicity - Rat - male and female - Oral - No observed adverse effect level - 1,000 mg/kg RTECS: UF3325000 nausea, headache, vomiting, Central Nervous System depression, dizziness. Liver - Irregularities - Based on Human Evidence (Formaldehyde).
<b>Lithium Chloride(7447-41-8)</b>	
LD50 Oral - Rat - Acute Toxicity	526 mg/kg
Inhalation	No data available.
Dermal	No data available.
Skin Corrosion/Irritation	No data available.
Serious Eye Damage/Eye Irritation	No data available.
Respiratory or Skin Sensitization	No data available.
Germ Cell Mutagenicity	No data available.
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. 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. 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.
Reproductive Toxicity	No data available.
Specific Target Organ Toxicity - Single Exposure	No data available.
Specific Target Organ Toxicity - Repeated Exposure	No data available.
Aspiration Hazard	No data available.

Additional Information	RTECS: OJ5950000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence.
<b>n-Methyl-2-pyrrolidone(872-50-4)</b>	
LD50 Oral - Rat	4,150 mg/kg (OECD Guideline 401) Literature data.
LC50 Inhalation - Rat	> 5.1 mg/l (OECD Guideline 403) Exposure time: 4 h An aerosol was tested. Limit concentration test only (LIMIT test). No mortality was observed.
LD50 Dermal - Rat	5,000 mg/m3; Species: rat (male/female) Value: > 5,000 mg/kg (OECD Guideline 402) Literature data.
Assessment other Acute Effects	Assessment of STOT single: Causes temporary irritation of the respiratory tract. Irritation / corrosion Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation. Causes temporary irritation of the respiratory tract. EU-classification Skin Species: rabbit Result: Slightly irritating. Method: Draize test Literature data. The European Union (EU) has classified this substance with 'Irritating to skin' (R38). Eye Species: rabbit Result: Irritant. Method: Draize test Literature data. Sensitization Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. Mouse Local Lymph Node Assay (LLNA) Species: mouse Result: Non-sensitizing. Method: OECD Guideline 429 The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Aspiration Hazard	Not Applicable.
Symptoms of Exposure	Medical conditions aggravated by overexposure Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.
Repeated Dose Toxicity	Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the testes after repeated inhalation of high doses. Experiment
Genetic Toxicity	Assessment of mutagenicity: The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals.
Carcinogenicity	Assessment of carcinogenicity: In long-term animal studies in which the substance was given by inhalation, a carcinogenic effect was not observed. In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans. The whole of the information assessable provides no indication of a carcinogenic effect.
Reproductive Toxicity	Assessment of reproduction toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.
Teratogenicity	Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.
<b>Parachlorobenzotrifluoride(98-56-6)</b>	
LD50 Oral - Rat	13,000 mg/kg Dermal: No data available.
Skin Corrosion/Irritation	No data available.
Serious Eye Damage/Eye Irritation	No data available.
Respiratory or Skin Sensitization	No data available.
Germ Cell Mutagenicity	Human Embryo Unscheduled DNA Synthesis.
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. 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. 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.
Reproductive Toxicity	No data available.
Specific Target Organ Toxicity - Single Exposure	Inhalation - May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure	No data available.
Aspiration Hazard	No data available.
Additional Information	RTECS: XS9145000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Propionic Acid, n-Butyl ester(590-01-2)</b>	
LD50 Oral - Rat - Acute Toxicity	5,000 mg/kg, Oral - Rat
Inhalation	No data available.
LD50 Dermal - Rabbit	14,000 mg/kg, Dermal - Rabbit
Skin corrosion/irritation	Skin - Rabbit
Serious eye damage/eye irritation	Eyes - Rabbit

Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available.
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. 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. 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.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available.
Additional Information	RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Triisopropanolamine(122-20-3)</b>	
LD50 Oral - Rat - Acute Toxicity	5,594 mg/kg, Oral - Rat- male
Inhalation	No data available.
LD50 Dermal	>5,000 mg/kg, Dermal, Rabbit (female)
Skin Corrosion/Irritation	Skin - rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious Eye Damage/Eye Irritation	Eyes - rabbit Result, Risk of serious damage to eyes. - 72 h (OECD Test Guideline 405)
Respiratory or Skin Sensitization	In vivo assay - guinea pig Result: Does not cause skin sensitization.
Germ Cell Mutagenicity	Ames test S. typhimurium Result: negative Mutagenicity (micronucleus test) mouse - male and female Result: negative
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. 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. 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.
Reproductive Toxicity	No data available.
Specific Target Organ Toxicity - Single Exposure	No data available.
Specific Target Organ Toxicity - Repeated Exposure	No data available.
Aspiration Hazard	No data available.
Additional Information	RTECS: UB8750000 Cough, Shortness of breath, Headache, Nausea, Vomiting.

## 12. ECOLOGICAL INFORMATION

<b>Acetone(67-64-1)</b>	
LC50 (Oncorhynchus mykiss (rainbow trout))	6,100 mg/l (Exposure time: 48 h)
EC50 (Daphnia magna (Water flea))	7,630 mg/l (Exposure time 48 h); Test Substance: Acetone
Toxicity to Algae	Remarks: No data available.
Persistence and Degradability	Biodegradability: Remarks: No data available.
Bioaccumulative Potential	Partition Coefficient: n-octanol/water: log Pow: -0.24
Mobility in Soil	No data available.
Other Adverse Effects	No data available. Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. Additional Ecological Information: No data available.
<b>Dibutyltin Dilaurate(77-58-7)</b>	
Aquatic toxicity	No data is available on the product itself.
LC50 - Fish	2 mg/l, Species: Fish.
EC50 - Daphnia	2.28 mg/l, Species: Daphnia magna.
Toxicity to other Organisms	No data available.
Persistence and Degradability	Biodegradability: No data is available on the product itself.
Mobility	No data available.
Bioaccumulation	No data is available on the product itself.
<b>Ethyl 3-Ethoxypropionate(763-69-9)</b>	

LC50 - Pimephales promelas - Toxicity to Fish	55.3 mg/l - 96 h, Pimephales promelas (fathead minnow) - (OECD Test Guideline 203)
LC50 - Pimephales promelas	45.3 mg/l - 96 h, Pimephales promelas (fathead minnow) - (OECD Test Guideline 203)
EC50 - Daphnia magna - Toxicity to daphnia and other Aquatic Invertebrates Immobilization	>479.7 mg/l - 48 h, Toxicity to daphnia and other aquatic invertebrates Immobilization - (OECD Test Guideline 202)
EC50 - Daphnia magna	785 mg/l - 48 h, Daphnia magna (Water flea) - (OECD Test Guideline 202)
EC50 - Selenastrum capricornutum - Toxicity to Algae	>114.86 mg/l - 72 h, Selenastrum capricornutum (green algae) - (OECD Test Guideline 201)
IC50 - other Microorganisms - Toxicity to Bacteria	>5,000 mg/l - 16 h, other microorganisms
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT and vPvB Assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.
<b>Lithium Chloride(7447-41-8)</b>	
LC50 - Ptychocheilus lucius - Toxicity to fish	17 mg/l - 96 h, -Ptychocheilus lucius
EC50 - Daphnia magna (Water flea) - to daphnia and other aquatic invertebrates	1.2 mg/l - 64 h, Daphnia magna (Water flea)
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT and vPvB Assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.
<b>n-Methyl-2-pyrrolidone(872-50-4)</b>	
LD50 (fish)	> 500 mg/l, Salmo gairdneri, syn. O. mykiss (static) The details of the toxic effect relate to the nominal concentration.
EC50 (Daphnia)	> 1,000 mg/l, (24 h), Daphnia magna (DIN 38412 Part 11, static) The details of the toxic effect relate to the nominal concentration.
EC50 (Algae)	> 500 mg/l, (72 h), Scenedesmus subspicatus (DIN 38412 Part 9) The details of the toxic effect relate to the nominal concentration.
Microorganisms/Effect on activated sludge	Toxicity to microorganisms DIN EN ISO 8192 aquatic activated sludge, industrial/EC50 (0.5 h): > 600 mg/l. The details of the toxic effect relate to the nominal concentration.
Persistence and Degradability	Assessment biodegradation and elimination (H2O) Readily biodegradable (according to OECD criteria). Elimination information 73 % BOD of the ThBOD (28 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C)) Readily biodegradable (according to OECD criteria). Assessment of stability in water: In contact with water the substance will hydrolyze slowly.
Bioaccumulative Potential	Assessment bioaccumulation potential Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.
Mobility in Soil	Assessment transport between environmental compartments. The substance will rapidly evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.
Additional Information	Sum parameter Chemical oxygen demand (COD): (DIN 38409 Part 41) approx. 1,600 mg/g Biochemical oxygen demand (BOD) Incubation period 5 d: < 2 mg/g Absorbable organically-bound halogen (AOX): This product contains no organically-bound halogen.
<b>Parachlorobenzotrifluoride(98-56-6)</b>	
Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects	No data available.
<b>Propionic Acid, n-Butyl ester(590-01-2)</b>	
LC50 - Daphnia magna - Toxicity to daphnia and other aquatic invertebrates	230 mg/l - 24 h, Daphnia magna (Water flea)
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.



Mobility in soil	No data available.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	No data available.
<b>Triisopropanolamine(122-20-3)</b>	
LC0 - Leuciscus idus - Toxicity to Fish	2,150 mg/l, 96 h, Leuciscus idus (Golden orfe)
EC50 - Daphnia magna - Toxicity to Daphnia and other Aquatic Invertebrates	>500 mg/l, 48 h, Daphnia magna (Water flea)
EC50 - Desmodesmus subspicatus - Toxicity to Algae	710 mg/l, 72 h, Desmodesmus subspicatus (Scenedesmus subspicatus)
Persistence and Degradability	Biodegradability aerobic - Exposure Time: 28 d Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301F)
Bioaccumulative Potential	Bioaccumulation Cyprinus carpio (Carp) - 42 d - 0.25 mg/l Bioconcentration factor (BCF): < 0.57 (OECD Test Guideline 305C)
Mobility in Soil	No data available.
Results of PBT and vPvB Assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

### 13. DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

**GENERAL INFORMATION :** No data available.

**DISPOSAL METHOD:** Dispose of waste and residues in accordance with Local, State, and Federal Regulations. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld or near this container.

### 14. TRANSPORT INFORMATION

**\*CHECK WITH YOUR CARRIER FOR ADDITIONAL RESTRICTIONS THAT MAY APPLY.**

#### USDOT GROUND

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME (DOT) :** Paint

**HAZARDS CLASS :** 3

**UN/NA NUMBER :** UN1263

**PACKING GROUP :** PG II

**EMERGENCY RESPONSE GUIDE (ERG) :** 128

#### IATA (AIR)

##### DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

**PROPER SHIPPING NAME :** Paint

**HAZARDS CLASS :** 3

**UN/NA NUMBER :** UN1263

**PACKING GROUP :** PG II

**EMERGENCY RESPONSE GUIDE (ERG) :** 128

#### IMDG (OCEAN)

**PROPER SHIPPING NAME :** Paint

**HAZARDS CLASS :** 3

**UN/NA NUMBER :** UN1263

**PACKING GROUP :** PG II

**EMERGENCY RESPONSE GUIDE (ERG) :** 128

**MARINE POLLUTANT :** No

**SPECIAL PRECAUTIONS :** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P235 Keep cool.

### 15. REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

**All ingredients in Section #3 are TSCA (Toxic Substance Control Act) listed.**

**OSHA HAZARDS :** Flammable liquid, Moderate skin irritant, Moderate eye irritant, Carcinogen.

**EPCRA - Emergency**

**CERCLA REPORTABLE QUANTITY**

**SARA 304 Extremely Hazardous Substances Reportable Quantity :** This material does not contain any components with a section 304 EHS RQ.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**SARA 311/312 Hazards :** Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA 313 :**

<b>This product contains:</b>	<b>Chemical CAS#</b>
Acetone	67-64-1
Parachlorobenzotrifluoride	98-56-6
Ethyl 3-Ethoxypropionate	763-69-9
Propionic Acid, n-Butyl ester	590-01-2

**CLEAN AIR ACT :**

**INTERNATIONAL REGULATIONS**

**CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP) :**

Flam. Liq. Cat. 2;	H226
Skin Irrit. Cat. 2;	H315
Skin Sens. Cat. 1;	H317
Ser. Eye Dam. Cat. 1;	H318
Eye Irrit. Cat. 2A;	H319
STOT, SE, CNS, Cat. 3;	H336
Aquatic Tox. Cat. 2;	H411

**NATIONAL REGULATIONS**

**IARC KEY**


~ Indicates a chemical listed by IARC as a possible carcinogen.


^ Indicates a chemical listed by IARC as a carcinogen.

**STATE REGULATIONS**

**CALIFORNIA PROPOSITION 65**

**PROPOSITION 65 KEY**

\*  **WARNING** Cancer – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#  **WARNING** Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

+  **WARNING** Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Massachusetts Right to Know**

<b>This product contains</b>	<b>Chemical CAS#</b>
Acetone	67-64-1
Parachlorobenzotrifluoride	98-56-6
Propionic Acid, n-Butyl ester	590-01-2
Triisopropanolamine	122-20-3
n-Methyl-2-pyrrolidone	872-50-4

**Pennsylvania Right to Know**

<b>This product contains</b>	<b>Chemical CAS#</b>
Acetone	67-64-1
Parachlorobenzotrifluoride	98-56-6

Ethyl 3-Ethoxypropionate	763-69-9
Propionic Acid, n-Butyl ester	590-01-2
Dibutyltin Dilaurate	77-58-7
Triisopropanolamine	122-20-3
Lithium Chloride	7447-41-8
n-Methyl-2-pyrrolidone	872-50-4

#### **New Jersey Right to Know**

<b>This product contains</b>	<b>Chemical CAS#</b>
Acetone	67-64-1
Parachlorobenzotrifluoride	98-56-6
Ethyl 3-Ethoxypropionate	763-69-9
Propionic Acid, n-Butyl ester	590-01-2
Dibutyltin Dilaurate	77-58-7
Triisopropanolamine	122-20-3
Lithium Chloride	7447-41-8
n-Methyl-2-pyrrolidone	872-50-4

## **16. OTHER INFORMATION**

### **Other Product Information**

% Volatile by Volume: 59.52

% Solids by Volume: 40.48

% Exempt by Volume: 51.53

% Volatile by Weight: 54.13

% Solids by Weight: 45.87

% Exempt by Weight: 46.89

### **VOC CONTENT:**

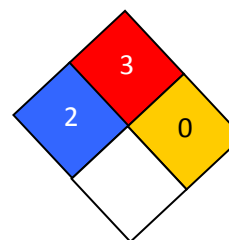
Excluding Exempt VOC: 153

Including Exempt VOC: 74

### **HMIS RATING**

Health :	2*
Flammability :	3
Reactivity :	0
Personal Protection :	H

### **NFPA CODES**



**MANUFACTURER DISCLAIMER :** The information contained in this Safety Data Sheet is considered to be true and accurate. Cardinal Industrial Finishes makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. This data is offered solely for the user's consideration, investigation and verification.