

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **121-817 POLYSTYRENE COATING REDUCER**

Supplier - Manufacturer **Chemcraft International Inc.,**  
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Canada L1A 3Z3

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### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 121-817

Synonym POLYSTYRENE COATING REDUCER

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Paint.)

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 1263 Paint

## Section 2. Hazardous Ingredients

### Exposure limits

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL ACGIH (United States, 1994).
Isopropanol	67-63-0	30 - 50	ORAL (LD50): Acute: 5045 mg/kg [Rat]. 4797 mg/kg [Dog] . 3600 mg/kg [Mouse]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit].	TWA: 400 ppm STEL: 500 ppm TWA: 983 mg/m <sup>3</sup> STEL: 1230 mg/m <sup>3</sup>
1-Butanol	71-36-3	15 - 30	ORAL (LD50): Acute: 2510 mg/kg [Rat]. 790 mg/kg [Rat]. DERMAL (LD50): Acute: 5300 mg/kg [Rabbit]. 3400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 8000 mg/l 4 hour/hours [Rat].	TWA: 50 ppm CEIL: 50 ppm
Acetone	67-64-1	5 - 15	ORAL (LD50): Acute: 5800 mg/kg [Rat]. 3000 mg/kg [Mouse]. DERMAL (LD50): Acute: 20000 mg/kg [Rabbit].	<b>ACGIH (United States, 1997).</b> TWA: 500 ppm STEL: 750 ppm TWA: 1188 mg/m <sup>3</sup> STEL: 1782 mg/m <sup>3</sup>
Diacetone alcohol	123-42-2	5 - 15	ORAL (LD50): Acute: 4000 mg/kg [Rat]. 3959 mg/kg [Mouse]. DERMAL (LD50): Acute: 13600 mg/kg [Rabbit].	TWA: 50 ppm CEIL: 75 ppm <b>ACGIH (United States).</b> TWA: 240 mg/m <sup>3</sup> CEIL: 360 mg/m <sup>3</sup>
Methyl ethyl ketone	78-93-3	5 - 15	ORAL (LD50): Acute: 3000 mg/kg [Mouse]. 2737 mg/kg [Rat]. DERMAL (LD50): Acute: 6480 mg/kg [Rabbit].	TWA: 200 ppm 8 hour/hours. STEL: 300 ppm 15 minute/minutes. CEIL: 300 ppm
Propylene glycol monomethyl	107-98-2	5 - 15	ORAL (LD50): Acute: 5660	<b>ACGIH (United States).</b>

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ether			mg/kg [Rat]. DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].	TWA: 100 ppm STEL: 150 ppm
Ethyl 3-ethoxy propionate	763-69-9	1 - 5	ORAL (LD50): Acute: 5001 mg/kg [Rat]. 4301 mg/kg [Rat]. DERMAL (LD50): Acute: 10000 mg/kg [Rabbit]. VAPOR (LC50): Acute: >1000 ppm 6 hour/hours [Rat].	

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

### **Section 3. Physical Data**

<b>Physical State and Appearance</b>	Liquid.				
<b>Color</b>	Not available.	<b>Odor</b>	Not available.	<b>Taste</b>	Not available.
<b>Molecular Weight</b>	Not applicable.				
<b>pH (1% soln/water)</b>	Neutral.				
<b>Boiling Point</b>	The lowest known value is 56.2°C (133.2°F) (2-Propanone). Weighted average: 102.25°C (216.1°F)				
<b>Melting Point</b>	May start to solidify at -42.8°C (-45°F) based on data for: 2-Pentanone, 4-hydroxy-4-methyl-. Weighted average: -80.79°C (-113.4°F)				
<b>Critical Temperature</b>	Not available.				
<b>Specific Gravity</b>	Weighted average: 0.83 (Water = 1)				
<b>Vapor Pressure</b>	The highest known value is 24.1 kPa (181 mm Hg) (at 20°C) (2-Propanone). Weighted average: 6.52 kPa (48.9 mm Hg) (at 20°C)				
<b>Vapor Density</b>	The highest known value is 5.03 (Air = 1) (Propanoic acid, 3-ethoxy-, ethyl ester). Weighted average: 2.68 (Air = 1)				
<b>Volatility</b>	Not available.				
<b>Odor Threshold</b>	The lowest known value is 0.25 ppm (2-Butanone) Weighted average: 9.84 ppm				
<b>Water/Oil Dist. Coeff.</b>	The product is more soluble in water.				
<b>Ionicity (in Water)</b>	Not available.				
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether, n-octanol, acetone.				
<b>Solubility</b>	Easily soluble in cold water, hot water, methanol, diethyl ether, acetone. Partially soluble in n-octanol.				

### **Section 4. Fire and Explosion Hazard**

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use alcohol-resistant foam or water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition, it emits acrid smoke and fumes. (2-Propanol)
<b>Flash Points</b>	The lowest known value is Closed cup: -18°C (-0.4°F). (T.C.C. ). (2-Propanone)
<b>Flammable Limits</b>	The greatest known range is Lower: 1.6% Upper: 13.8% (2-Propanol, 1-methoxy-)
<b>Auto-Ignition Temperature</b>	The lowest known value is 287°C (548.6°F) (2-Propanol, 1-methoxy-).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Explosion Hazards in Presence of Various Substances</b>	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.

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Special Remarks on Explosion Hazards Not available.

**Section 5. Reactivity Data**

**Stability** The product is stable.

**Decomposition products** Not available.

**Conditions of Instability** Not available.

**Incompatibility with various substances** Reactive or incompatible with the following materials: oxidizing materials and reducing materials. Slightly reactive or incompatible with the following materials: organic materials, acids and alkalis.

**Corrosivity** Not available.

**Special Remarks on Reactivity** Air sensitive. (1-Propanol, 2-methoxy-)

**Special Remarks on Corrosivity** Not available.

**Section 6. Toxicological Properties**

**Routes of Entry** Dermal contact. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals** Acute oral toxicity (LD50): 790 mg/kg [Rat]. (1-Butanol).  
Acute dermal toxicity (LD50): 3400 mg/kg [Rabbit]. (1-Butanol).  
Acute toxicity of the gas (LC50): 23500 mg/m<sup>3</sup> 8 hour/hours [Rat]. (2-Butanone).  
Acute toxicity of the vapor (LC50): >1000 ppm 6 hour/hours [Rat]. (Propanoic acid, 3-ethoxy-, ethyl ester).

**Effects of Acute Exposure** Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant).

**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [1-Butanol]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for humans or animals.) by EPA [2-Propanone]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Butanone]. Classified 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanol, 1-methoxy-].  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS** Classified None. for humans [2-Propanone].  
**DEVELOPMENTAL TOXICITY:** Not available.  
The substance is toxic to blood, kidneys, lungs, the nervous system, liver.  
Repeated or prolonged exposure to the substance can produce target organs damage.

**Special Remarks on Toxicity to Animals** Not available.

**Special Remarks on Chronic Effects on Humans** Detected in maternal milk in human. (2-Propanol)

**Special Remarks on Other Toxic Effects on Humans** Exposure can cause nausea, headache and vomiting. (2-Propanol)

**Exposure Limits** Not available.

**Section 7. Preventive Measures**

**Personal Protection** Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

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<b>Small Spill</b>	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.	
<b>Large Spill</b>	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Dike if necessary.	
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
<b>Precautions</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.	
<b>Storage</b>	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).	
<b>TDG Classification</b>	3	
<b>PIN</b>	1263 Paint	<b>PG: II</b>
<b>Special Provisions for Transport</b>	-	
<b>Federal and State Regulations</b>	Pennsylvania RTK: Isopropyl alcohol; 2-Propanol, 1-methoxy- Massachusetts RTK: Isopropyl alcohol; 2-Propanol, 1-methoxy- New Jersey: Isopropyl alcohol; 2-Propanol, 1-methoxy- TSCA 8(b) inventory: N-Butyl Alcohol; Isopropyl alcohol SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Methyl Ethyl Ketone: Fire hazard, Immediate (acute) health hazard; 2-Propanol: Fire hazard, Delayed (chronic) health hazard CERCLA: Hazardous substances.: N-Butyl Alcohol; Acetone; Methyl Ethyl Ketone;	
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	<b>Class B-2: Flammable liquid</b> <b>Class D-2B: Material causing other toxic effects (Toxic).</b>
	<b>HCS (U.S.A.)</b>	Highly toxic Target organ effects
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Personal Protection</b>	G
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Specific Hazard</b>	

**Section 8. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
<b>Hazardous Skin Contact</b>	Not available.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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<b>Hazardous Inhalation</b>	Move the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Warning: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.
<b>Ingestion</b>	Do not induce vomiting. Examine the lips and mouth to ascertain if the tissues are damaged, a possible indication that toxic material was ingested. The absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Hazardous Ingestion</b>	Not available.

**Section 9. Preparation Information**

**References** -Manufacturers Material Safety Data Sheets.

**Other Special Considerations** Not available.

**Related Information** This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.

**Preparation Information** **Validated by K. William on 2/28/2006.**

**Verified by K. William.**

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