

### Section 1: Identification

<b>Common Name/Trade Name</b>	POLOXAMER 407	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours) NSW Poisons Information Centre: 131 126 (24 hours)
<b>Distributor Name</b>	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: <a href="mailto:bellacorp@bellacorp.com.au">bellacorp@bellacorp.com.au</a>	
<b>Product Synonym(s)</b>	Oxirane, methyl-, polymer with oxirane	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

### Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Not a hazardous substance or mixture.
<b>Signal Word</b>	None
<b>Hazard Statement(s)</b>	N/A
<b>Pictogram(s)</b>	N/A
<b>Precautionary Statement(s)</b>	N/A
<b>Hazards Not Otherwise Classified</b>	Combustible Dust. May form combustible dust concentration in air. The product is under certain conditions capable of dust explosion. The product does not fulfill the criteria for PBT (Persistent/bio-accumulative/toxic) and vPvB (very persistent/very bio-accumulative).
<b>Ingredient(s) with Unknown Toxicity</b>	No data available

### Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Methyl-oxirane polymer with oxirane		
<b>Common Name</b>	Poloxamer 407		
<b>CAS Number</b>	9003-11-6		
<b>Additional Ingredient Information</b>	Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.		
	<b>Material</b>	<b>Percent</b>	<b>CAS</b>
	BHT	0.005-0.0125%	128-37-0
<b>Impurities and/or Stabilizing Additives</b>	No data available		

### Section 4: First Aid Measures

<b>General Advice</b>	Remove contaminated clothing.
<b>If Inhaled</b>	Keep patient calm, remove to fresh air.
<b>In Case of Skin Contact</b>	Wash thoroughly with soap and water.
<b>In Case of Eye Contact</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
<b>If Swallowed</b>	Rinse mouth and then drink plenty of water.
<b>Most Important Symptoms and Effects</b>	No significant symptoms are expected due to the non-classification of the product. Note to physician: Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Suitable extinguishing media: water spray, foam, dry powder. Unsuitable extinguishing media for safety reasons: water jet.
<b>Special Hazards Arising From the Substance/Mixture</b>	Hazards during firefighting: Burning produces harmful and toxic fumes.
<b>Special PPE and/or Precautions for Firefighters</b>	Protective equipment for firefighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations. Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Avoid the formation and build-up of dust - danger of dust explosion. Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, section 8.
<b>Methods and Materials Used for Containment</b>	Do not discharge into drains/surface waters/groundwater.
<b>Cleanup Procedures</b>	For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Dispose of absorbed material in accordance with regulations. Non-sparking tools should be used.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Closed containers should only be opened in well-ventilated areas. Protection against fire and explosion: Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling. Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s <sup>-1</sup> ).
<b>Conditions for Safe Storage</b>	Further information on storage conditions: Keep container tightly closed and dry. Protect against heat.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	No occupational exposure limits known.
<b>Appropriate Engineering Controls</b>	Provide local exhaust ventilation to control dust. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Hands and/or face should be washed before breaks and at the end of the shift
<b>PPE - Eye/Face Protection</b>	Safety glasses with side-shields.
<b>PPE - Skin Protection</b>	Wear chemical resistant protective gloves.
<b>PPE - Body Protection</b>	Body protection must be chosen on level of activity and exposure.
<b>PPE - Respiratory Protection</b>	Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	White powder, coarse particle, waxy type
<b>Upper/Lower Flammability or Explosive Limits</b>	not highly flammable (VDI 2263, sheet 1, 1.1). Lower explosion limit: For solids not relevant for classification and labelling. Upper explosion limit: For solids not relevant for classification and labelling
<b>Odor</b>	Faint specific odour
<b>Vapor Pressure</b>	negligible
<b>Odor Threshold</b>	not applicable
<b>Vapor Density</b>	The product is a non-volatile solid.
<b>pH</b>	6-9 (50 g/l)
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	53-57 °C
<b>Solubility</b>	Solubility in water: > 175 g/l (23°C) Solubility (qualitative): soluble. solvent(s): distilled water.
<b>Initial Boiling Point and Boiling Range</b>	The product is a non-volatile solid.
<b>Flash Point</b>	> 150°C
<b>Evaporation Rate</b>	The product is a non-volatile solid.
<b>Flammability (Solid, Gas)</b>	Not highly flammable
<b>Partition Coefficient</b>	not applicable
<b>Auto-Ignition Temperature</b>	Based on its structural properties the product is not classified as self-igniting.
<b>Decomposition Temperature</b>	350°C (DSC (DIN 51007))
<b>Viscosity</b>	not applicable, the product is a solid

## Section 10: Stability and Reactivity

<b>Reactivity</b>	Corrosion to metals: Corrosive effects to metal are not anticipated. Oxidizing properties: Based on its structural properties the product is not classified as oxidizing. Dust explosivity characteristics: Kst: 58 m.bar/s. Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1) (St 1). Minimum ignition energy: 10 -30 mJ, 6.42 hPa. The product is capable of dust explosion. Formation of flammable gases: Forms no flammable gases in the presence of water.
<b>Chemical Stability</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Possibility of Hazardous Reactions</b>	The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.
<b>Conditions to Avoid</b>	Avoid excessive temperatures. Avoid dust formation. Avoid deposition of dust.
<b>Incompatible Materials</b>	Strong bases, strong acids, oxidizing agents.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated. Thermal decomposition: 350°C (DSC (DIN 51007))

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	Type of value: LD50 Species: rat Value: > 5,000 mg/kg (BASF-Test) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
<b>Acute Toxicity - Inhalation</b>	Type of value: LC50 Species: rat not determined
<b>Acute Toxicity - Dermal</b>	Type of value: LD50 Species: rabbit Value: > 2,000 mg/kg. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Literature data.
<b>Acute Toxicity - Eye</b>	Species: rabbit Result: non-irritant Method: OECD Guideline 405. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition
<b>Skin Corrosion/Irritation</b>	Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. Species: rabbit Result: non-irritant Method: OECD Guideline 404 The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
<b>Serious Eye Damage/Irritation</b>	Species: rabbit, Result: non-irritant. Method: OECD Guideline 405. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
<b>Respiratory or Skin Sensitization</b>	Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. Guinea pig maximization test: Species: guinea pig. Result: Non-sensitizing. Method: OECD Guideline 406. Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. Guinea pig maximization test Species: guinea pig. Result: Non-sensitizing. Method: OECD Guideline 406
<b>Germ Cell Mutagenicity</b>	Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in bacteria. Genetic toxicity in vitro: Ames-test with and without metabolic activation negative Literature data.
<b>Carcinogenicity IARC</b>	No data available. Assessment of carcinogenicity: No reliable data was available concerning carcinogenic activity.
<b>Carcinogenicity ACGIH</b>	No data available
<b>Carcinogenicity NTP</b>	No data available
<b>Carcinogenicity OSHA</b>	No data available
<b>Reproductive Toxicity</b>	Assessment of reproduction toxicity: No reliable data are available concerning reproduction toxicity.
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Assessment of repeated dose toxicity: No data available.
<b>Aspiration Hazard</b>	Not applicable

## Section 12: Ecological Information

<b>Toxicity</b>	Aquatic toxicity: Assessment of aquatic toxicity: The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. There is a high probability that the product is not acutely harmful to aquatic organisms. Toxicity to fish: LC50 (96 h) > >120 mg/l <i>Oncorhynchus mykiss</i> (OECD Guideline 203; ISO 7346; 92/69/EEC, C.1, static). Aquatic invertebrates: EC50 (48 h)>100 mg/l, <i>Daphnia magna</i> (Directive 79/831/EEC, static). Nominal concentration. Analogous: Assessment derived from products with similar chemical character. Aquatic plants: EC50 (72 h)>100 mg/l (biomass), <i>Scenedesmus subspicatus</i> (DIN 38412 Part 9, static) Nominal concentration. Analogous: Assessment derived from products with similar chemical character. Chronic toxicity to fish: No data available. Chronic toxicity to aquatic invertebrates: No data available. Assessment of terrestrial toxicity: No data available concerning terrestrial toxicity. Toxicity to microorganisms: OECD Guideline 209 aquatic activated sludge, domestic/EC50 (30 min): >1000mg/l. Nominal concentration.
<b>Persistence and Degradability</b>	Not readily biodegradable (by OECD Criteria). Poorly biodegradable.
<b>Bio-accumulative Potential</b>	Significant accumulation in organisms is not to be expected.
<b>Mobility in Soil</b>	Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from water surface. Adsorption to solid soil phase is possible.
<b>Other Adverse Effects</b>	Sum parameter Chemical oxygen demand (COD): 1,910 mg/g No data available. Biochemical oxygen demand (BOD): < 2 mg/g Add. remarks environm. fate & pathway: Treatment in biological wastewater treatment plants has to be performed according to local and administrative regulations

### Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.
<b>Waste Treatment Methods Packaging</b>	Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

### Section 14: Transport Information

<b>UN Number</b>	Not dangerous goods.
<b>UN Proper Shipping Name</b>	N/A
<b>Transport Hazard Class(es)</b>	N/A
<b>Packaging Group</b>	N/A
<b>Environmental Hazards</b>	No data available

### Section 15: Regulatory Information

Federal Regulations: Registration status: Chemical TSCA, US released/listed. Pharma TSCA, US released/exempt. Cosmetic: TSCA, US released/exempt. EPCRA 311/312 (Hazard categories): Fire (Combustible Dust); State regulations: State RTK: MA, NJ, PA, CAS Number 128-37-0 BHT. CA Prop. 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. NFPA Hazard codes: Health: 0, Fire: 1, Reactivity: 0. HMIS III rating: Health: 0, Flammability: 1, Physical hazard: 0.

### Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Scarlotte Smith
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