

Section 1: Identification

Common Name/Trade Name	POLOXAMER 407 NF	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Oxirane, methyl-, polymer with oxirane	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not a hazardous substance or mixture.
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	May form combustible dust concentration in air.
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	Methyl-oxirane polymer with oxirane		
Common Name	Poloxamer 407		
CAS Number	9003-11-6		
Additional Ingredient Information	According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200: This product does not contain any components classified as hazardous under the referenced regulation.		
	Material	Percent	CAS
	BHT	0.005-0.0125%	128-37-0
Impurities and/or Stabilizing Additives	No data available		

Section 4: First Aid Measures

General Advice	Remove contaminated clothing.
If Inhaled	Keep patient calm, remove to fresh air.
In Case of Skin Contact	Wash thoroughly with soap and water.
In Case of Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
If Swallowed	Rinse mouth and then drink plenty of water.
Most Important Symptoms and Effects	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

Suitable Extinguishing Media	Suitable extinguishing media: water spray, foam, dry powder. Unsuitable extinguishing media for safety reasons: water jet.
Special Hazards Arising From the Substance/Mixture	Hazards during fire-fighting: Burning produces harmful and toxic fumes.
Special PPE and/or Precautions for Firefighters	Protective equipment for fire-fighting: 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

Personal Precautions, Protective Equipment and Emergency Procedures	Avoid the formation and build-up of dust -danger of dust 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. Avoid dust formation. Use personal protective clothing.
Methods and Materials Used for Containment	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Cleanup Procedures	For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Contain with dust binding material and dispose of. Avoid raising dust. Dispose of absorbed material in accordance with regulations. Nonsparking tools should be used.

Section 7: Handling and Storage

Precautions for Safe Handling	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: Avoid dust formation. Take precautionary measures against static discharges. The product is capable of dust explosion. Avoid all sources of ignition: heat, sparks, open flame. 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 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 ⁻¹).
Conditions for Safe Storage	Further information on storage conditions: Keep container tightly closed and dry. Protect against heat.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available.
Appropriate Engineering Controls	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 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. Avoid inhalation of dusts. When using, do not eat, do not drink or smoke.
PPE - Eye/Face Protection	Safety glasses with side-shields.
PPE - Skin Protection	Wear chemical resistant protective gloves.
PPE - Body Protection	Body protection must be chosen on level of activity and exposure.
PPE - Respiratory Protection	Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Section 9: Physical and Chemical Properties

Appearance	White powder, coarse particle, waxy type
Upper/Lower Flammability or Explosive Limits	For solids not relevant for classification and labelling.
Odor	Faint specific odour
Vapor Pressure	negligible
Odor Threshold	not applicable
Vapor Density	The product is a non volatile solid.
pH	6 - 9 (50 g/l)
Relative Density	No data available
Melting Point/Freezing Point	53 - 57 °C
Solubility	Solubility in water: > 175 g/l (23 °C) Solubility (qualitative): soluble. solvent(s): distilled water.
Initial Boiling Point and Boiling Range	The product is a non-volatile solid.
Flash Point	> 150 °C
Evaporation Rate	The product is a non-volatile solid.
Flammability (Solid, Gas)	Not highly flammable
Partition Coefficient	not applicable
Auto-Ignition Temperature	not determined.
Decomposition Temperature	350°C, 0.64 kJ/g (DSC (DIN 51007)). 75°C, 10kJ/kg (DSC (DIN 51007)).
Viscosity	not applicable, the product is a solid

Section 10: Stability and Reactivity

Reactivity	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.
Chemical Stability	No data available.
Possibility of Hazardous Reactions	The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.
Conditions to Avoid	Avoid excessive temperatures.
Incompatible Materials	Strong bases, strong acids, oxidizing agents.
Hazardous Decomposition Products	Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated. Thermal decomposition: 350Å°C, 2.5 K/min (DSC (DIN 51007)). 75Å°C, 2.5 K/min (DSC (DIN 51007)).

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Oral: Type of value: LD50, Species: rat, Value: >5000 mg/kg. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Acute Toxicity - Inhalation	Type of value: LC50, Species: rat, not determined.
Acute Toxicity - Dermal	Type of value: LD50, Species: rabbit, Value: > 2000 mg/kg. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Literature data.
Acute Toxicity - Eye	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.
Skin Corrosion/Irritation	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.
Serious Eye Damage/Irritation	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.
Respiratory or Skin Sensitization	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.
Germ Cell Mutagenicity	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.
Carcinogenicity IARC	No data available. Assessment of carcinogenicity: No reliable data was available concerning carcinogenic activity.
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	No data available
Carcinogenicity OSHA	No data available
Reproductive Toxicity	Assessment of reproduction toxicity: No reliable data are available concerning reproduction toxicity.
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	Not applicable

Section 12: Ecological Information

Toxicity	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 Oncorhynchus mykiss (OECD Guideline 203; ISO 7346; 92/69/EEC, C.1, static). Aquatic invertebrates: EC50 (48 h)>100 mg/l, Daphnia magna (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), Scenedesmus subspicatus (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.
Persistence and Degradability	Not readily biodegradable (by OECD Criteria). Poorly biodegradable.
Bio-accumulative Potential	Significant accumulation in organisms is not to be expected.
Mobility in Soil	Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from water surface. Adsorption to solid soil phase is possible.
Other Adverse Effects	No data available

Section 13: Disposal Considerations

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

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	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

Additional Information	N/A
Prepared By	Scarlotte Smith
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