



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
10	Health Hazard  Fire Hazard  1	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Poloxamer 188		Catalog Number(s).	YY1007, YY858, P1161, P1169
			CAS#	9003-11-6 or 106392-12-5
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.		RTECS	MD0911050
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: CAS no. 9003-11-6 listed as Oxirane, methyl-, polymer with oxirane;
				CAS no. 106392-12-5 is not TSCA listed.
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Pluronic F68; Polyethylene-polypropylene glycol; Polyoxyethylene-Polyoxypropylene Block Copolymer; Poly(Ethylene oxide-co-Polypropylene oxide), Block Block Copolymer of Ethylene Oxide and Propylene Oxide; Ethylene oxide/Polypropylene oxide copolymer; Methyl-oxirane polymer with oxirane		IN CASE OF ENCHEMIREC (2	
Chemical Name	Oxirane, methyl,-polymer with oxirane, block			
Chemical Family	Chemical Family Not available.		CALL (310) 516-	-8000
Chemical Formula	POLYMER or (C3-H6-O.C2-H4-O)x			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2. Composition and Information on Ingredients  Exposure Limits					
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Poloxamer 188, Surfactant	9003-11-6 or 106392-12-5				100
Toxicological Data Not applica on Ingredients	ble.				

Section 3. Hazards Identification		
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  Repeated or prolonged exposure is not known to aggravate medical condition.	

Section 4. First Aid Measures		
Eye Contact	Checkfor 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.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.	
Serious Skin Contact	Not available.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and Explosion Data		
<b>Flammability of the Product</b>	May be combustible at high temperature.	
<b>Auto-Ignition Temperature</b>	Not available.	
<b>Flash Points</b>	Not available.	
Flammable Limits	Not available.	
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), phosphates.	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder.  LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Not available.	
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.	
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.	

Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	

Section 8. Exposure Controls/Personal Protection		
<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
<b>Personal Protection</b>	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
<b>Exposure Limits</b>	Not available.	

Section 9. Physical and Chemical Properties			
Physical state and appearance	Solid. (Prill)	Odor	Not available.
Molecular Weight	7680 - 9510 g/mole	Taste	Not available.
pH (1% soln/water)	Not available	Color	White.
<b>Boiling Point</b>	Not available.		
Melting Point	52℃ (125.6 <b></b> F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
Solubility	Soluble in cold water. Solubility in Water: >10%		

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat	
Incompatibility with various substances	Not available.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 9380 mg/kg [Rat].	
<b>Chronic Effects on Humans</b>	Not available.	
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	May contain trace amounts of Ethylene oxide, and 1,4-Dioxane which may cause cancer.  May contain trace amounts of Ethylene oxide which may cause adverse reproductive effects.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects Skin: May cause skin irritation. Eyes May cause slight, temporary irritation. Inhalation: May cause respiratory tract irritation. Inhalation overexposure is not anticipated during normal use. Ingestion: Ingestion of large amounts may result in diarrhea and weakness. (Sub)Chronic Potential Health Effects Skin: Repeated or prolonged skin contact may result in skin irritation.	

Section 12. Ecological Information				
Ecotoxicity	Ecotoxicity in water (LC50): 100 mg/l 96 hours [Fish].			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.			
Special Remarks on the Products of Biodegradation	Not available.			

## Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

# Section 14. Transport Information

**DOT Classification** Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for Transport Not applicable.

DOT (Pictograms)



### Section 15. Other Regulatory Information and Pictograms

#### Federal and State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Ethylene oxide: 1.4-Dioxane

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene oxide

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene oxide; 1,4-Dioxane

TSCA 8(b) inventory: CAS no. 9003-11-6 listed as Oxirane, methyl-, polymer with oxirane; CAS no. 106392-12-5 is

not TSCA listed.

# California Proposition 65 Warnings

California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene oxide; 1,4-Dioxane

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

#### Other Regulations

For CAS no. 9003-11-6

EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances.

Canada: Listed on Canadian Domestic Substance List (DSL).

China: Listed on National Inventory.

Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS).

Australia: Listed on AICS.

#### **Other Classifications**

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according Not applicable.

to the EU regulations.

#### HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	( <b>E</b> )

National Fire Protection Association (U.S.A.)

Health



## WHMIS (Canada) (Pictograms)



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Poloxamer 188			Page Number: 6
DSCL (Europe) (Pictograms)			
TDG (Canada) (Pictograms)			
ADR (Europe) (Pictograms)			
Protective Equipment		Gloves	
		Lab coat.	
		Dust respirator. Be sure to use an approved/certified respirator or equivalent.	
	$\nabla \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	Safety glasses.	

Section 16. Other Information		
MSDS Code	P3963	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 6/20/2008.		Verified by Sonia Owen. Printed 6/27/2008.

# CALL (310) 516-8000 Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.