# spectrum®



## SAFETY DATA SHEET

Preparation Date: 5/26/2017	Revision Date: 5/26/2017	Revision Number: G1			
1. IDENTIFICATION					
Product identifier					
Product code: Product Name:	P1162 POLOXAMER 181, SURFACTANT				
Other means of identification Synonyms: CAS #: RTECS # CI#:	Pl u r o n i c L 6 1 ; Po I y e t h y I e n e - p o I y Polyoxyethylene-Polyoxypropylene Block Cope oxide-co-Polypropylene oxide), Block; Block Co Oxide and Propylene Oxide; Ethylene oxide/Po copolymer; Methyl-oxirane polymer with oxiran 9003-11-6 MD0907950 or RR0549000 Not available	olymer; Poly(Ethylene opolymer of Ethylene olypropylene oxide			
Recommended use of the chem	nical and restrictions on use				
Recommended use: Uses advised against	No information available. No information available				
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000.				
<u>Order Online At:</u> Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)				
2. HAZARDS IDENTIFICATION					

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Poloxamer 181, surfactant (may contain	9003-11-6	100
trace amounts of Ethylene oxide, Propylene		
oxide, and 1,4-dioxane)		

4. FIRST AID MEASURES				
First aid measures				
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.			
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.			
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.			
Most important symptoms and effects, both acute and delayed				
Symptoms	May cause eye/skin/resp	iratory tract irritation. May cause hypermotility, diarrhea.		
Indication of any immediate medical attention and special treatment needed				
Notes to Physician:	Treat symptomatically.			
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment		ar gloves and other necessary protective clothing. Dispose of		
	5. FIRE-FIGHT	ING MEASURES		
Extinguishing Media Suitable Extinguishing Media:		Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.		
Unsuitable Extinguishing Media:		No information available.		
Specific hazards arising from the chemical				
Hazardous Combustion Products:		Carbon Dioxide, Carbon Monoxide.		
Specific hazards:	May be combustible at high temperatures. May be ign by heat, sparks or flames.			
Special Protective Actions for Firefighters				

**Specific Methods:** 

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

**Special Protective Equipment for Firefighters:** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

#### Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g.<br/>vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far<br/>ahead of liquid spill for later disposal.Methods for cleaning upUse appropriate tools to put the spilled material in a suitable chemical waste<br/>disposal container. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials: Strong bases Strong acids Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

#### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Poloxamer 181,	9003-11-6	None	None	None	None
surfactant (may contain					
trace amounts of					
Ethylene oxide,					
Propylene oxide, and					
1,4-dioxane)					

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)	9003-11-6	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1.4-dioxane)	9003-11-6	None	None

#### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

#### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment** 

Eye protection:	Goggles			
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves			
Respiratory protection:	Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.			
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.			
9. PHYSICAL AND CHEMICAL PROPERTIES				

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

Odor: No information available.

Molecular/Formula weight: Av. M.W. = 2000 g/mole

Flash Point Tested according to: Not available

**Upper Explosion Limit (%):** No information available

Boiling point/range(°C/°F): >149 °C/>300 °F

Specific gravity: 1.01

Evaporation rate: No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available

Reactivity No information available

<b>Appearance:</b>	
Slightly milky,	cloudy.

Taste No information available.

Flammability: No information available

Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): Freezing point = approx. -29 °C/-20 °F No information available

Bulk density: No information available

pH: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water):  $\log pow = -1.58$ 

Solubility: Insoluble in water

Color: No information available.

Formula: HO(C2H4O)a(C3H6O)b(C2H4O)aH

Flashpoint (°C/°F): 235 °C/455 °F

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F):

Density (q/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

#### **10. STABILITY AND REACTIVITY**

**Chemical stability** Stability: Stable under recommended storage conditions. Possibility of Hazardous Reactions: Hazardous polymerization does not occur Heat. Ignition sources. Incompatible materials. Conditions to avoid: Incompatible Materials: Strong bases Strong acids Strong oxidizing agents Carbon monoxide. Hazardous decomposition products: Other Information **Corrosivity:** No information available

Special Remarks on Corrosivity: No information available

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

**Principal Routes of Exposure:** Eyes. Skin.

#### Acute Toxicity

#### **Component Information**

CAS-No. 9003-11-6				
LD50/oral/rat = 16 g/kg Oral LD50 Rat (LOLI); 5700 mg/kg Oral LD50 Rat (RTECS; LOLI)				
LD50/oral/mouse = No information available				
LD50/dermal/rabbit = No information available				
LD50/dermal/rat = No information available				
LC50/inhalation/rat = 320 mg/m <sup>3</sup> Inhalation LC50 Rat 4 h				
LC50/inhalation/mouse = No infomation available				
Other LD50 or LC50information = No information available				
Product Information				
LD50/oral/rat =				
VALUE- Acute Tox Oral = 5700 mg/kg				
LD50/oral/mouse =				
Value - Acute Tox Oral = 3000 mg/kg				
LD50/dermal/rabbit				
VALUE-Acute Tox Dermal = No information available				
LD50/dermal/rat				
VALUE -Acute Tox Dermal = No information available				
LC50/inhalation/rat				
VALUE-Vapor = No information available				
VALUE-Gas = No information available				
VALUE-Dust/Mist = 320 mg/m <sup>3</sup> (4-hr.)				
LC50/Inhalation/mouse				
VALUE-Vapor = No information available				
VALUE - Gas = No information available				
VALUE - Dust/Mist = No information available				
Symptoms				
Skin Contact: May cause skin irritation.				
<b>Eye Contact:</b> May cause slight or mild eye irritation. May cause transient eye irritation.				
alation May cause irritation of respiratory tract.				
Ingestion May cause digestive (gastointestinal) tract irritation. May cause hypermotility, diarrhea. May affect behavior/central nervous system (somnolence).				
Aspiration hazard No information available.				
Delayed and immediate effects as well as chronic effects from short and long-term exposure				

#### **Chronic Toxicity**

No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)		Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

#### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility:	No information available.

#### **13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

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Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)	9003-11-6	None	None	None	None

#### **14. TRANSPORT INFORMATION**

#### D

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide Number	No information available
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available No information available
Packing Group: Subsidiary Risk:	No information available
Subsidiary Risk.	
IMO / IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
1040	
	Not Regulated
UN-No: Broper Shipping Name:	Not Regulated No information available
Proper Shipping Name: Hazard Class:	No information available
Subsidiary Risk:	No information available
Subsidialy Misk.	

Product code: P1162

Product name: POLOXAMER 181, SURFACTANT

Packing Group:	No information available
ΙΑΤΑ	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ERG Code:	No information available
Special Provisions	No information available

#### **15. REGULATORY INFORMATION**

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)	9003-11-6	Present XU	Present KE-24574	Present	Present (7)-1246	Present	Present	Not present

#### **U.S. Regulations**

 Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)

 FDA - Direct Food Additives
 21 CFR 173.340 21 CFR 172.808

 FDA - 21 CFR - Total Food Additives
 172.808 173.340 176.210 177.1210 177.1680 178.1010 178.3570

 Present
 172.810

178.1010

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

AWARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

AWARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Reproductive	Female Reproductive Toxicity:
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)		Ethylene oxide; Propylene oxide; 1,4-Dioxane	Ethylene oxide	Ethylene oxide	Ethylene oxide

#### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Poloxamer 181, surfactant (may contain trace amounts of	9003-11-6	None	None	None	None	None

Ethylene oxide,			
Propylene oxide,			
and 1,4-dioxane)			

#### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)	9003-11-6	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### WHMIS 1988 Hazard Class

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)	9003-11-6	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Poloxamer 181, surfactant (may contain trace amounts of	9003-11-6	Not listed
Ethylene oxide, Propylene oxide, and 1,4-dioxane)		
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Poloxamer 181, surfactant (may contain trace amounts of	9003-11-6	Not listed
Ethylene oxide, Propylene oxide, and 1,4-dioxane)		

#### **EU Classification**

#### EU GHS - SV - CLP 172/2008

Components	CAS-No.	EU GHS - SV - CLP (172/2008)
Poloxamer 181, surfactant (may contain trace amounts of	9003-11-6	
Ethylene oxide, Propylene oxide, and 1,4-dioxane)		

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

### S -phrase(s)

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Poloxamer 181, surfactant (may contain trace amounts of Ethylene oxide, Propylene oxide, and 1,4-dioxane)	9003-11-6		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None.

#### **16. OTHER INFORMATION**

Preparation Date:	5/26/2017
Revision Date:	5/26/2017
Prepared by:	Sonia Owen

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet