

## SAFETY DATA SHEET

Preparation Date: 6/29/2015

Revision Date: 10/11/2018

Revision Number: G3

### 1. IDENTIFICATION

**Product identifier**

**Product code:** P1166  
**Product Name:** POLOXAMER 407, NF

**Other means of identification**

**Synonyms:** Polyethylene-polypropylene glycol; Polyoxyethylene-Polyoxypropylene Block Copolymer; Poly(Ethyleneoxide-co-Polypropylene oxide), Block; Block Copolymer of Ethylene Oxide and Propylene Oxide; Ethylene oxide/Polypropylene oxide copolymer; Methyl-oxirane polymer with oxirane

**CAS #:** 9003-11-6  
**RTECS #** TP6328666  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous according to 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 407	9003-11-6	100
Propylene oxide	75-56-9	0.0005
1,4-Dioxane	123-91-1	0.0005
Ethylene oxide	75-21-8	0.0001

### 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 irritation  
May cause gastrointestinal disturbances  
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 blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

- Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.
- Unsuitable Extinguishing Media:** No information available.

#### Specific hazards arising from the chemical

- Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.
- Specific hazards:** May be combustible at high temperatures.

## Special Protective Actions for Firefighters

<b>Specific Methods:</b>	No information available.
<b>Special Protective Equipment for Firefighters:</b>	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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. 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. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. 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:**

Oxidizing agents  
Strong acids  
Strong bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Poloxamer 407	9003-11-6	None	None	None	None
Propylene oxide	75-56-9	100 ppm TWA 240 mg/m <sup>3</sup> TWA	None	2 ppm TWA	None
1,4-Dioxane	123-91-1	100 ppm TWA 360 mg/m <sup>3</sup> TWA	1 ppm Ceiling 30 min 3.6 mg/m <sup>3</sup> Ceiling 30 min	20 ppm TWA	None
Ethylene oxide	75-21-8	1 ppm TWA 5 ppm STEL	0.1 ppm TWA 0.18 mg/m <sup>3</sup> TWA 5 ppm Ceiling 10 min/day 9 mg/m <sup>3</sup> Ceiling 10 min/day	1 ppm TWA	None

### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Poloxamer 407	9003-11-6	None	None	None	None
Propylene oxide	75-56-9	2 ppm TWA 4.7 mg/m <sup>3</sup> TWA	2 ppm TWA	None	None
1,4-Dioxane	123-91-1	20 ppm TWA 72 mg/m <sup>3</sup> TWA	20 ppm TWA	None	None
Ethylene oxide	75-21-8	1 ppm TWA 1.8 mg/m <sup>3</sup> TWA	0.1 ppm TWA 1 ppm STEL	1 ppm TWA 1.8 mg/m <sup>3</sup> TWA 10 ppm STEL 18 mg/m <sup>3</sup> STEL	1 ppm TWAEV 1.8 mg/m <sup>3</sup> TWAEV

### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Poloxamer 407	9003-11-6	None	None
Propylene oxide	75-56-9	20 ppm TWA 48 mg/m <sup>3</sup> TWA	20 ppm TWA 50 mg/m <sup>3</sup> TWA
1,4-Dioxane	123-91-1	10 ppm TWA 36 mg/m <sup>3</sup> tWA	25 ppm TWA 90 mg/m <sup>3</sup> TWA 100 ppm STEL 360 mg/m <sup>3</sup> STEL
Ethylene oxide	75-21-8	1 ppm TWA 1.8 mg/m <sup>3</sup> TWA	1 ppm TWA 2 mg/m <sup>3</sup> TWA

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. 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.

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

#### Personal Protective Equipment

**Eye protection:** Safety glasses with side-shields. or Goggles

**Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of

high concentration of dust (dust clouds) , 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

<b>Physical state:</b> Solid	<b>Appearance:</b> Waxy. Granular. Coarse pariticles.	<b>Color:</b> White.
<b>Odor:</b> No information available.	<b>Taste</b> No information available.	<b>Formula:</b> HO(C2H4O) <sub>a</sub> (C3H6O) <sub>b</sub> (C2H4O) <sub>a</sub> H
<b>Molecular/Formula weight (g/mole):</b> Avg. 12,500	<b>Flammability:</b> No information available	<b>Flash point (°C):</b> >150
<b>Flashpoint (°C/°F):</b> >150°C/302°F	<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> >250°C(482°F)
<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 53°C(127.4°F)
<b>Decomposition temperature(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available
<b>Density (g/cm<sup>3</sup>):</b> No information available	<b>Specific gravity:</b> No information available	<b>pH:</b> No information available
<b>Vapor pressure @ 20°C (kPa):</b> No information available	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available
<b>VOC content (g/L):</b> No information available	<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Viscosity:</b> No information available	<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in cold water Solubility in Water: 175 g/l at 25 °C

## 10. STABILITY AND REACTIVITY

**Reactivity**

Reactive with oxidizing agents  
Reacts with strong bases  
Reactive with strong acids

**Chemical stability**

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Strong acids  
Strong bases

**Hazardous decomposition products:** Carbon oxides.

**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:**  
Ingestion. Inhalation.

### Acute Toxicity

#### Component Information

Poloxamer 407	
CAS-No.	9003-11-6
LD50/oral/rat = 5700 mg/kg Oral LD50 Rat 16 g/kg LD50/oral/mouse = 3 gm/kg LD50/dermal/rabbit = >5000 mg/kg LD50/dermal/rat = No information available LC50/inhalation/rat = 320 mg/m <sup>3</sup> Inhalation LC50 Rat 4 h LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available	
Propylene oxide	
CAS-No.	75-56-9
LD50/oral/rat = = 520 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = 1244 mg/kg Dermal LD50 Rabbit LD50/dermal/rat = No information available LC50/inhalation/rat = 4000 ppm Inhalation LC50 Rat 4 h; 0.948 mg/L Inhalation LC50 Rat 4 h LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available	
1,4-Dioxane	
CAS-No.	123-91-1
LD50/oral/rat = 5170 mg/kg Oral LD50 Rat; 4200 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = 7600 mg/kg Dermal LD50Rabbit LD50/dermal/rat = No information available LC50/inhalation/rat = 46 mg/l Inhalation LC50 Rat 2 h LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available	
Ethylene oxide	
CAS-No.	75-21-8
LD50/oral/rat = 72 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = 800 ppm Inhalation LC50 Rat 4 h LC50/inhalation/mouse = No information 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 = > 5000 mg/kg

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.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May cause gastrointestinal disturbances. 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 407	9003-11-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Propylene oxide	75-56-9	Group 2B - Possibly Carcinogenic to Humans - Monograph 60 [1994] Supplement 7	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

Product code: P1166

Product name: POLOXAMER 407,  
NF

7 / 15

		[1987]					
1,4-Dioxane	123-91-1	Group 2B - Possibly Carcinogenic to Humans - Monograph 71 [1999] Supplement 7 [1987] Monograph 11 [1976]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed
Ethylene oxide	75-21-8	Group 1 - Carcinogenic to Humans - Monograph 100F [2012] Monograph 97 [2008] Monograph 60 [1994] overall evaluation upgraded from Group 2A to Group 1 based on mechanistic and other relevant data	A2 Suspected Human Carcinogen	Known Human Carcinogen	Present see 29 CFR 1910.1047	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**

**Ecotoxicity effects:** Aquatic environment.

*Poloxamer 407 - 9003-11-6*

**Freshwater Algae Data:** >970 mg/l 72 h EC50 algae

**Freshwater Fish Species Data:** >10,000 mg/l 96 h LC50 Brachydanio rerio

*Propylene oxide - 75-56-9*

**Freshwater Algae Data:** 240 mg/L EC50 Pseudokirchneriella subcapitata 96 h

**Freshwater Fish Species Data:** 215 mg/L LC50 Lepomis macrochirus 96 h static 1

**Water Flea Data:** 350 mg/L EC50 Daphnia magna 48 h

*1,4-Dioxane - 123-91-1*

**Freshwater Fish Species Data:** 10000 mg/L LC50 Lepomis macrochirus 96 h static 1 10000 mg/L LC50 Lepomis macrochirus 96 h semi-static 1 9850 mg/L LC50 Pimephales promelas 96 h



flow-through 1 10306 - 14742 mg/L LC50 Pimephales promelas 96 h static 1 9850 mg/L LC50 Pimephales promelas 96 h 1  
163 mg/L EC50 water flea 48 h

**Water Flea Data:**

*Ethylene oxide - 75-21-8*

**Freshwater Fish Species Data:** 73 - 96 mg/L LC50 Pimephales promelas 96 h 1

**Water Flea Data:** 137 - 300 mg/L LC50 Daphnia magna 48 h

**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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Poloxamer 407	9003-11-6	None	None	None	None
Propylene oxide	75-56-9	None	None	None	None
1,4-Dioxane	123-91-1	None	None	None	U108
Ethylene oxide	75-21-8	None	None	None	U115 ignitable waste, toxic waste

**14. TRANSPORT INFORMATION**

**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  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

**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

**ICAO**

**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

**IATA**

**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

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Poloxamer 407</i>	9003-11-6	Present XU(ACTIVE)	Present KE-24574	Present	Present (7)-1246	Present	Present	Not present
<i>Propylene oxide</i>	75-56-9	PresentACTIV E	Present KE-24565	Present	Present (2)-219	Present	Present	Present 200-879-2
<i>1,4-Dioxane</i>	123-91-1	PresentACTIV E	Present KE-10463	Present	Present (5)-839	Present	Present	Present 204-661-8
<i>Ethylene oxide</i>	75-21-8	PresentACTIV E	Present KE-27537	Present	Present (2)-218	Present	Present	Present 200-849-9

**U.S. Regulations**

*Poloxamer 407*

**FDA - Direct Food Additives** 21 CFR 172.808 (condensates); 21 CFR 173.340  
**FDA - 21 CFR - Total Food Additives** 172.808, 173.340, 176.210, 177.1210, 177.1680, 178.1010, 178.3570; Present (average molecular weight 14000; not regulated under 21 CFR); Present (average molecular weight 9760-13200; not regulated under 21 CFR); 172.810 (average molecular weight 3500-4125);  
**- List Sourced from EAFUS**

178.1010 (min average molecular weight1900)

*Propylene oxide*

**Massachusetts RTK:** Present  
**Massachusetts EHS:** carcinogen; extraordinarily hazardous  
**New Jersey RTK Hazardous Substance List:** 1615  
**New Jersey (EHS) List:** 1615 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**New Jersey TCPA - EHS:** 7700lbTQ  
**Pennsylvania RTK:** Environmental hazard  
Special hazardous substance  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Pennsylvania RTK - Special Hazardous Substances** Present  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
100 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** Listed  
**California Directors List of Hazardous Substances:** Present

**FDA - Direct Food Additives** 21 CFR 172.892 (<=25%)  
**FDA - 21 CFR - Total Food Additives** 172.892, 175.105, 176.210  
**- List Sourced from EAFUS**

*1,4-Dioxane*

**Massachusetts RTK:** Present  
**Massachusetts EHS:** carcinogen; extraordinarily hazardous  
**New Jersey RTK Hazardous Substance List:** 0789  
**New Jersey (EHS) List:** 0789 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**Pennsylvania RTK:** Environmental hazard  
Special hazardous substance  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Pennsylvania RTK - Special Hazardous Substances** Present  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
100 lb RQ  
1 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** 100lbfinal RQ  
45.4kgfinal RQ  
**California Directors List of Hazardous Substances:** Present


*Ethylene oxide*

**Massachusetts RTK:** Present  
**Massachusetts EHS:** carcinogen; extraordinarily hazardous  
**New Jersey RTK Hazardous Substance List:** 0882  
**New Jersey (EHS) List:** 0882 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**New Jersey TCPA - EHS:** 2700lbTQ  
**Pennsylvania RTK:** Environmental hazard  
Special hazardous substance  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Pennsylvania RTK - Special Hazardous Substances** Present  
**Michigan PSM HHC:** = 5000 lb TQ  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
10 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** Listed  
**California Directors List of Hazardous Substances:** Present


**FDA - 21 CFR - Total Food Additives** 172.710, 172.808, 175.105, 176.180, 176.210, 177.2470, 178.3520  
**- List Sourced from EAFUS**

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

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

 **WARNING:** 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](http://www.p65warnings.ca.gov).

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

 **WARNING:** 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](http://www.p65warnings.ca.gov).

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Poloxamer 407	9003-11-6	Not Listed	Not Listed	Not Listed	Ethylene oxide
Propylene oxide	75-56-9	carcinogen	Not Listed	Not Listed	Not Listed
1,4-Dioxane	123-91-1	carcinogen	Not Listed	Not Listed	Not Listed
Ethylene oxide	75-21-8	carcinogen	Developmental toxicity	Male reproductive toxicity	female reproductive toxicity

#### 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
<i>Poloxamer 407</i>	9003-11-6	None	None	None	None	None
<i>Propylene oxide</i>	75-56-9	100 lb final RQ 45.4 kg final RQ	100 lb EPCRA RQ	None	None	0.1 % de minimis concentration
<i>1,4-Dioxane</i>	123-91-1	100 lb final RQ 45.4 kg final RQ	None	None	None	0.1 % de minimis concentration
<i>Ethylene oxide</i>	75-21-8	10 lb final RQ 4.54 kg final RQ	1000 lb TPQ 10 lb EPCRA RQ	None	None	0.1 % de minimis concentration

#### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Poloxamer 407	9003-11-6	Not Applicable	Not Applicable
Propylene oxide	75-56-9	Not Applicable	Not Applicable
1,4-Dioxane	123-91-1	Not Applicable	Not Applicable
Ethylene oxide	75-21-8	Not Applicable	10/04/1982 10/04/1992

#### Canada

##### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

##### Component

Propylene oxide  
75-56-9 ( 0.0005 )

##### WHMIS 2015 Hazard Classification

Flammable liquids - Category 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Carcinogenicity - Category 2: H351 Suspected of causing cancer.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.

1,4-Dioxane  
123-91-1 ( 0.0005 )

Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Carcinogenicity - Category 2: H351 Suspected of causing cancer.

Ethylene oxide  
75-21-8 ( 0.0001 )

Flammable gases - Category 1: H220 Extremely flammable gas.; Gases under pressure - Liquefied gas: H280 Contains gas under pressure, may explode when heated.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Respiratory sensitizers - Category 1B: H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.; Skin sensitizers - Category 1B: H317 May cause allergic skin reaction.; Germ cell mutagenicity - Category 1B: H340 May cause genetic defects.; Carcinogenicity - Category 1B: H350 May cause

cancer.; Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.

**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

Components	WHMIS Ingredient Disclosure List -
Propylene oxide	1 %
1,4-Dioxane	0.1 %
Ethylene oxide	0.1 %

### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Poloxamer 407	9003-11-6	Present	Not Listed
Propylene oxide	75-56-9	Present	Not Listed
1,4-Dioxane	123-91-1	Present	Not Listed
Ethylene oxide	75-21-8	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Poloxamer 407	9003-11-6	Not listed
Propylene oxide	75-56-9	Present
1,4-Dioxane	123-91-1	Not listed
Ethylene oxide	75-21-8	Present
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Poloxamer 407	9003-11-6	Not listed
Propylene oxide	75-56-9	Not listed
1,4-Dioxane	123-91-1	Not listed
Ethylene oxide	75-21-8	Not listed

### EU Classification

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Poloxamer 407	9003-11-6	
Propylene oxide	75-56-9	Flammable liquids - Flam. Liq. 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed.; Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled.; Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Germ cell mutagenicity - Muta. 1B: H340 May cause genetic defects.; Carcinogenicity - Carc. 1B: H350 May cause cancer.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.603-055-00-4
1,4-Dioxane	123-91-1	Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation -

		Eye Irrit. 2: H319 Causes serious eye irritation.; Carcinogenicity - Carc. 2: H351 Suspected of causing cancer.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.; Supplemental Hazards: EUH019 May form explosive peroxides.; Supplemental Hazards: EUH066 Repeated exposure may cause skin dryness or cracking.603-024-00-5
Ethylene oxide	75-21-8	Flammable gases - Flam. Gas 1: H220 Extremely flammable gas.; Gases under pressure: H280 Contains gas under pressure, may explode when heated.; Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Germ cell mutagenicity - Muta. 1B: H340 May cause genetic defects.; Carcinogenicity - Carc. 1B: H350 May cause cancer.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.603-023-00-X

EU - CLP (1272/2008)

**R-phrase(s)**

not determined (not applicable)

**S -phrase(s)**

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Poloxamer 407	9003-11-6		No information	
Propylene oxide	75-56-9	F+; R12 Xn; R20/21/22 Xi; R36/37/38 Carc.Cat.2; R45 Muta.Cat.2; R46	No information	
1,4-Dioxane	123-91-1	F; R11-19 Xi; R36/37 Carc.Cat.3; R40 R66	No information	S: (2)-9-16-36/37-46
Ethylene oxide	75-21-8	F+; R12 T; R23 Xi; R36/37/38 Carc.Cat.2; R45 Muta.Cat.2; R46 R6	No information	S: 53-45

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

**Indication of danger:**  
None.

## 16. OTHER INFORMATION

**Preparation Date:** 6/29/2015  
**Revision Date:** 10/11/2018  
**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**