

## SAFETY DATA SHEET

Preparation Date: 6/16/2016

Revision Date: 10/17/2018

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** T1303  
**Product Name:** TERGITOL® TMN-6 (90 PERCENT AQUEOUS), SURFACTANT (Tergitol® is a registered trademark of the Dow Chemical Company)

#### Other means of identification

**Synonyms:** Poly(oxy-1,2-ethanediyl),  
.alpha.-[3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-  
Polyethylene glycol trimethylnonyl ether  
Polyoxyethylene 2,6,8-trimethyl-4-nonyl ether  
Polyoxyethylene trimethylnonyl ether

**CAS #:** 60828-78-6  
**RTECS #** WZ6210000  
**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 considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

#### Label elements

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## Danger

### Hazard statements

Causes skin irritation  
Causes serious eye damage



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Not available

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves  
Wear eye/face protection

### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	=>87
Water	7732-18-5	10
Polyethylene Glycol	25322-68-3	<=3
Ethylene oxide	75-21-8	<=0.0020
Acetaldehyde	75-07-0	<=0.0006
1,4-Dioxane	123-91-1	<=0.0005
Formaldehyde	50-00-0	<=0.0004

## 4. FIRST AID MEASURES

### First aid measures

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**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 skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**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. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes skin irritation  
Severe eye irritation  
May cause corneal injury  
Causes digestive (gastrointestinal) tract irritation  
May cause nausea and vomiting  
May cause 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:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** No information available.

**Specific hazards:** No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Use appropriate tools to put the spilled material in a suitable chemical waste 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. Avoid dust formation. 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 vapors or spray mist. 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 acids  
Strong oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	None	None	None	None
Water	7732-18-5	None	None	None	None
Polyethylene Glycol	25322-68-3	None	None	None	10 mg/m <sup>3</sup> TWA
Ethylene oxide	75-21-8	1 ppm TWA	0.1 ppm TWA	1 ppm TWA	None

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		5 ppm STEL	0.18 mg/m <sup>3</sup> TWA 5 ppm Ceiling 10 min/day 9 mg/m <sup>3</sup> Ceiling 10 min/day		
Acetaldehyde	75-07-0	200 ppm TWA 360 mg/m <sup>3</sup> TWA	None	= 25 ppm Ceiling	None
1,4-Dioxane	123-91-1	100 ppm TWA 360 mg/m <sup>3</sup> TWA	1 ppm Ceiling 3.6 mg/m <sup>3</sup> Ceiling	20 ppm TWA	Not determined
Formaldehyde	50-00-0	0.75 ppm TWA 2 ppm STEL	0.016 ppm TWA 0.1 ppm Ceiling 15 min	0.3 ppm STEL 0.1 ppm TWA	None

### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	None	None	None	None
Water	7732-18-5	None	None	None	None
Polyethylene Glycol	25322-68-3	None	None	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
Acetaldehyde	75-07-0	= 25 ppm Ceiling = 45 mg/m <sup>3</sup> Ceiling	= 25 ppm Ceiling	25 ppm Ceiling	25 ppm Ceiling 45 mg/m <sup>3</sup> Ceiling
1,4-Dioxane	123-91-1	20 ppm TWA 72 mg/m <sup>3</sup> TWA	20 ppm TWA	None	None
Formaldehyde	50-00-0	1 ppm Ceiling 1.3 mg/m <sup>3</sup> Ceiling 0.75 ppm TWA 0.9 mg/m <sup>3</sup> TWA	0.3 ppm TWA 1 ppm Ceiling	1.5 ppm Ceiling 1 ppm STEL	2 ppm Ceiling 3 mg/m <sup>3</sup> Ceiling

### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	None	None
Water	7732-18-5	None	None
Polyethylene Glycol	25322-68-3	None	None
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
Acetaldehyde	75-07-0	91 mg/m <sup>3</sup> STEL 50 ppm STEL 20 ppm TWA 36 mg/m <sup>3</sup> TWA	= 25 ppm Peak = 45 mg/m <sup>3</sup> Peak
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
Formaldehyde	50-00-0	1 ppm/1.2 mg/m <sup>3</sup> TWA 2 ppm/2.5 mg/m <sup>3</sup> STEL probable carcinogen	2 ppm Ceiling 3 mg/m <sup>3</sup> Ceiling

### 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

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## Personal Protective Equipment

<b>Eye protection:</b>	Goggles
<b>Skin and body protection:</b>	Chemical resistant apron Long sleeved clothing Gloves
<b>Respiratory protection:</b>	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.
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Yellow.
<b>Odor:</b> Pungent.	<b>Taste</b> No information available.	<b>Formula:</b> C <sub>12</sub> H <sub>26</sub> O(CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> (for Polyethylene glycol trimethylnonyl ether)
<b>Molecular/Formula weight (g/mole):</b> Av. molecular weight = 540 (for Polyethylene glycol trimethylnonyl ether)	<b>Flammability:</b> No	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 106 °C/223 °F	<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> No information available
<b>Specific gravity:</b> 1.024	<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> 4.8 (calculated)	<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 Water	

## 10. STABILITY AND REACTIVITY

**Reactivity**  
Reactive with strong acids

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Reactive with strong oxidizing agents

**Chemical stability**

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

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

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** Strong acids  
Strong oxidizing agents

**Hazardous decomposition products:** No information available.

**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:**

Inhalation. Ingestion. Skin.

**Acute Toxicity**

**Component Information**

Polyethylene Glycol Trimethylnonyl Ether

CAS-No. 60828-78-6

**LD50/oral/rat** = 5650 mg/kg Oral LD50 Rat; 7460 µL/kg Oral LD50 Rat

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = 8480 ul/kg; 4780 ul/kg

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

Water

CAS-No. 7732-18-5

**LD50/oral/rat** = > 90 mL/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** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

Polyethylene Glycol

CAS-No. 25322-68-3

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**LD50/oral/rat** = 22 g/kg Oral LD50 Rat; 28 g/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = > 20 mL/kg; > 20 g/kg  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**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

Acetaldehyde	
CAS-No.	75-07-0

**LD50/oral/rat** = 660 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 900 mg/kg  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 13300 ppm Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = 23000 mg/m<sup>3</sup> 4hr.  
**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 µL/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 46 g/m<sup>3</sup> Inhalation LC50 Rat 2 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

Formaldehyde	
CAS-No.	50-00-0

**LD50/oral/rat** = 100 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 500 mg/kg (RTECS)  
 385 mg/kg (RTECS)  
 42 mg/kg (RTECS)  
**LD50/dermal/rabbit** = 270 mg/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 0.578 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = 260 mg/kg oral LD50 Guinea Pig

**Product Information**

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

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**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 = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms****Skin Contact:** Causes skin irritation.**Eye Contact:** Severe eye irritation. Causes conjunctivitis. Redness and pain. May cause corneal injury.**Inhalation** Inhalation of mist or vapors may cause respiratory tract irritation. At room temperature, exposure to vapor is minimal due to low volatility. A single exposure is not likely to be hazardous.**Ingestion** May cause digestive (gastrointestinal) tract irritation with nausea, vomiting, diarrhea.**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
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Polyethylene Glycol	25322-68-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Ethylene oxide	75-21-8	Group 1 - Carcinogenic to Humans - Monograph 100F [2012] Monograph 97 [2008] Monograph 60	A2 Suspected Human Carcinogen	Known Human Carcinogen	Present see 29 CFR 1910.1047	Not listed	Not listed

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		[1994] overall evaluation upgraded from Group 2A to Group 1 based on mechanistic and other relevant data					
Acetaldehyde	75-07-0	Group 1 - Carcinogenic to Humans - Monograph 100E [2012] associated with consumption of alcoholic beverages Group 2B - Possibly Carcinogenic to Humans - Monograph 71 [1999] Supplement 7 [1987] Monograph 36 [1985]	A2 - Suspected Human Carcinogen	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed
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
Formaldehyde	50-00-0	Group 1 -Carcinogenic to humans - Monograph 100F [2012] Monograph 88 [2006] Monograph 62 [1995] Supplement 7 [1987]	A1 Confirmed Human Carcinogen	Known Human Carcinogen	Present see 29 CFR 1910.1048	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.

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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** Aquatic environment.

*Polyethylene Glycol - 25322-68-3*

**Freshwater Fish Species Data:** 5000 mg/L LC50 Carassius auratus 24 h 1

*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

*Acetaldehyde - 75-07-0*

**Freshwater Algae Data:** 237 - 249 mg/L EC50 Nitzschia linearis 120 h

**Freshwater Fish Species Data:** 1.8-2.4 mg/L LC50 Oncorhynchus mykiss 96 h static 1

28.0-34.0 mg/L LC50 Pimephales promelas 96 h flow-through 1

39.8-46.8 mg/L LC50 Pimephales promelas 96 h static 1

53 mg/L LC50 Lepomis macrochirus 96 h static 1

**Water Flea Data:** 3.64 - 6.15 mg/L EC50 Daphnia magna 48 h

48.3 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

**Water Flea Data:** 163 mg/L EC50 water flea 48 h

*Formaldehyde - 50-00-0*

**Freshwater Fish Species Data:** 22.6 - 25.7 mg/L LC50 Pimephales promelas 96 h flow-through 1 1510 µg/L LC50 Lepomis macrochirus 96 h static 1 41 mg/L LC50 Brachydanio rerio 96 h static 1 0.032 - 0.226 mL/L LC50 Oncorhynchus mykiss 96 h flow-through 1 100 - 136 mg/L LC50 Oncorhynchus mykiss 96 h static 1 23.2 - 29.7 mg/L LC50 Pimephales promelas 96 h static 1

**Water Flea Data:** 2 mg/L LC50 Daphnia magna 48 h 11.3 - 18 mg/L EC50 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	RCRA - K Series	RCRA - P Series	RCRA - U Series
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		Wastes	Wastes	Wastes	Wastes
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	None	None	None	None
Water	7732-18-5	None	None	None	None
Polyethylene Glycol	25322-68-3	None	None	None	None
Ethylene oxide	75-21-8	None	None	None	U115 ignitable waste, toxic waste
Acetaldehyde	75-07-0	None	None	None	U001 Ignitable waste
1,4-Dioxane	123-91-1	None	None	None	U108
Formaldehyde	50-00-0	None	None	None	U122

## 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

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**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

### 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Polyethylene Glycol Trimethylnonyl Ether</i>	60828-78-6	PresentACTIV E	Present KE-11551	Present	Not present	Present	Present	Not present
<i>Water</i>	7732-18-5	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
<i>Polyethylene Glycol</i>	25322-68-3	PresentACTIV E	Present KE-20228	Present	Present (7)-129	Present	Present	Not present
<i>Ethylene oxide</i>	75-21-8	PresentACTIV E	Present KE-27537	Present	Present (2)-218	Present	Present	Present 200-849-9
<i>Acetaldehyde</i>	75-07-0	Present T	Present KE-00003	Present	Present (2)-485	Present	Present	Present 200-836-8
<i>1,4-Dioxane</i>	123-91-1	PresentACTIV E	Present KE-10463	Present	Present (5)-839	Present	Present	Present 204-661-8
<i>Formaldehyde</i>	50-00-0	Present(ACTIVE)	Present KE-17074	Present	Present (2)-482	Present	Present	Present 200-001-8

#### U.S. Regulations

##### *Polyethylene Glycol*

**Minnesota - Hazardous Substance List:** Present

**FDA - Direct Food Additives** 21 CFR 172.210, 21 CFR 172.820, 21 CFR 173.310, 21 CFR 173.340 (molecular weight 200-9500)

**FDA - 21 CFR - Total Food Additives - List Sourced from EAFUS** 172.210, 172.820, 173.310, 173.340, 175.105, 175.300, 176.180, 178.3750, 73.1 (molecular weight 200-9500)

##### *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

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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

*Acetaldehyde*

Massachusetts RTK: Present  
New Jersey RTK Hazardous Substance List: 0001  
New Jersey (EHS) List: 0001 500 lb TPQ  
New Jersey - Discharge Prevention - List of Hazardous Substances: Present  
New Jersey TCPA - EHS: =4900lbTQ  
Pennsylvania RTK: Environmental hazard  
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:  
= 1 lb RQ  
Louisiana Reportable Quantity List for Pollutants: Listed  
California Directors List of Hazardous Substances: Present  
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.60  
FDA - 21 CFR - Total Food Additives 177.2410 182.60  
- List Sourced from EAFUS

*1,4-Dioxane*

Massachusetts RTK: Present  
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

*Formaldehyde*

Massachusetts RTK: Present  
Massachusetts EHS: carcinogen; extraordinarily hazardous  
New Jersey RTK Hazardous Substance List: 0946  
New Jersey (EHS) List: 0946 500 lb TPQ  
New Jersey - Discharge Prevention - List of Hazardous Substances: Present  
New Jersey TCPA - EHS: 175lbTQ  
15000lbTQ  
Pennsylvania RTK: Environmental hazard  
Special hazardous substance  
Pennsylvania RTK - Environmental Hazard List Present  
Pennsylvania RTK - Special Hazardous Substances Present  
Michigan PSM HHC: = 1000 lb TQ  
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  
FDA - Direct Food Additives 21 CFR 173.340  
FDA - 21 CFR - Total Food Additives 173.340, 175.105, 175.210, 175.300, 176.170, 176.180, 176.200, 177.1200, 177.2410,  
- List Sourced from EAFUS 178.3120, 573.460

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## 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:
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	Not Listed	Not Listed	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Polyethylene Glycol	25322-68-3	Not Listed	Not Listed	Not Listed	Not Listed
Ethylene oxide	75-21-8	carcinogen	Developmental toxicity	Male reproductive toxicity	female reproductive toxicity
Acetaldehyde	75-07-0	carcinogen	Not Listed	Not Listed	Not Listed
1,4-Dioxane	123-91-1	carcinogen	Not Listed	Not Listed	Not Listed
Formaldehyde	50-00-0	carcinogen	Not Listed	Not Listed	Not Listed

### 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>Polyethylene Glycol Trimethylnonyl Ether</i>	60828-78-6	None	None	None	None	None
<i>Water</i>	7732-18-5	None	None	None	None	None
<i>Polyethylene Glycol</i>	25322-68-3	None	None	None	None	None
<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
<i>Acetaldehyde</i>	75-07-0	= 1000 lb final RQ = 454 kg final RQ	None	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>Formaldehyde</i>	50-00-0	100 lb final RQ 45.4 kg final RQ	100 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
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	Not Applicable	Not Applicable
Water	7732-18-5	Not Applicable	Not Applicable
Polyethylene Glycol	25322-68-3	Not Applicable	Not Applicable
Ethylene oxide	75-21-8	Not Applicable	10/04/1982 10/04/1992
Acetaldehyde	75-07-0	Not Applicable	09/30/199106/30/1998
1,4-Dioxane	123-91-1	Not Applicable	Not Applicable
Formaldehyde	50-00-0	Not Applicable	Not Applicable

### Canada

### WHIMIS 2015 - GHS Classifications

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SURFACTANT (Tergitol® is a  
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WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Component  
Water  
7732-18-5 ( 10 )  
Ethylene oxide  
75-21-8 ( <=0.0020 )

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

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.

Acetaldehyde  
75-07-0 ( <=0.0006 )

Flammable liquids - Category 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Skin sensitizers - Category 1B: H317 May cause allergic skin reaction.; 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.

Formaldehyde  
50-00-0 ( <=0.0004 )

Flammable gases - Category 1: H220 Extremely flammable gas.; Flammable liquids - Category 3: H226 Flammable liquid and vapour. (solution, 37%); Corrosive to Metals - Category 1: H290 May be corrosive to metals. (solution, 37%); Acute toxicity - Oral - Category 4: H302 Harmful if swallowed. (solution, 37%); Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin. (solution, 37%); Acute toxicity - Inhalation - Category 2: H330 Fatal if inhaled.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation. (solution, 37%); Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage. (solution, 37%); Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Skin sensitizers - Category 1A: H317 May cause allergic skin reaction. (solution, 37%); Germ cell mutagenicity - Category 2: H341 Suspected of causing genetic defects.; Carcinogenicity - Category 1A: H350 May cause cancer.; Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child. (solution, 37%; contains 16% of a substance that is toxic to reproduction (Methyl alcohol)); Specific target organ toxicity - Single exposure - Category 2: H371 May cause damage to organs. (solution, 37%); Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Single exposure - Category 3: H336 May cause drowsiness or dizziness. (solution, 37%)

**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

<b>Components</b>	<b>WHMIS Ingredient Disclosure List -</b>
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Ethylene oxide	0.1 %
Acetaldehyde	1 %
1,4-Dioxane	0.1 %
Formaldehyde	0.1 %

### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	Present	Not Listed
Water	7732-18-5	Present	Not Listed
Polyethylene Glycol	25322-68-3	Present	Not Listed
Ethylene oxide	75-21-8	Present	Not Listed
Acetaldehyde	75-07-0	Present	Not Listed
1,4-Dioxane	123-91-1	Present	Not Listed
Formaldehyde	50-00-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	Not listed
Water	7732-18-5	Not listed
Polyethylene Glycol	25322-68-3	Not listed
Ethylene oxide	75-21-8	Present
Acetaldehyde	75-07-0	Present
1,4-Dioxane	123-91-1	Not listed
Formaldehyde	50-00-0	Present
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	Not listed
Water	7732-18-5	Not listed
Polyethylene Glycol	25322-68-3	Not listed
Ethylene oxide	75-21-8	Not listed
Acetaldehyde	75-07-0	Not listed
1,4-Dioxane	123-91-1	Not listed
Formaldehyde	50-00-0	Not listed

### EU Classification

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

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6	
Water	7732-18-5	
Polyethylene Glycol	25322-68-3	
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
Acetaldehyde	75-07-0	

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1,4-Dioxane	123-91-1	<p>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</p>
Formaldehyde	50-00-0	<p>Acute toxicity - Oral - Acute Tox. 3: H301 Toxic if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (C &gt;= 25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction. (C &gt;= 0.2 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Germ cell mutagenicity - Muta. 2: H341 Suspected of causing genetic defects.; Carcinogenicity - Carc. 1B: H350 May cause cancer.605-001-00-5 Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (C &gt;= 25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (5 % &lt;= C &lt;25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation. (5 % &lt;= C &lt;25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction. (C &gt;= 0.2 %; Concentration limits for acute</p>

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		toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation. (C >= 5 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)605-001-00-5
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**EU - CLP (1272/2008)**

**R-phrase(s)**

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

**S -phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

S39 - Wear eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Polyethylene Glycol Trimethylnonyl Ether	60828-78-6		No information	
Water	7732-18-5		No information	
Polyethylene Glycol	25322-68-3		No information	
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
Acetaldehyde	75-07-0	F+; R12 Xi; R36/37 Carc.Cat.3; R40	No information	S2 S16 S33 S36/37
1,4-Dioxane	123-91-1	F; R11-19 Xi; R36/37 Carc.Cat.3; R40 R66	No information	S2 S9 S16 S36/37 S46
Formaldehyde	50-00-0	T; R23/24/25 C; R34 Carc.Cat.2; R45 R43 Muta.Cat.3; R68	0.2%<=C<1% Xi;R43 1%<=C<5% Xn;R40-43 25%<=C T;R23/24/25-34-40-43 5%<=C<25% Xn;R20/21/22-36/37/3 8-40-43	S(1/2)-S26-S36/37/39-S45-S51

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

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**Indication of danger:**

Xi - Irritant.

Xi

**16. OTHER INFORMATION**

**Preparation Date:** 6/16/2016  
**Revision Date:** 10/17/2018  
**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**