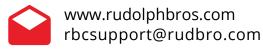


1-800-375-0605 Option 8 for 24/7 Service





## **SAFETY DATA SHEET**

DDP Specialty Electronic Materials US, LLC

Product name: BETAMATE™ 73005 Structural Adhesive

Issue Date: 10/17/2018 Print Date: 02/05/2022

DDP Specialty Electronic Materials US, LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. IDENTIFICATION

Product name: BETAMATE™ 73005 Structural Adhesive

Recommended use of the chemical and restrictions on use

**Identified uses:** A structural adhesive -- For use in automotive applications.

## **COMPANY IDENTIFICATION**

DDP Specialty Electronic Materials US, LLC 974 Centre Road, Building 730, Wilmington DE 19805 UNITED STATES

**Customer Information Number:** 833-338-7668

SDSQuestion-NA@dupont.com

#### **EMERGENCY TELEPHONE NUMBER**

24-Hour Emergency Contact: 1-800-424-9300 Local Emergency Contact: 800-424-9300

## 2. HAZARDS IDENTIFICATION

## **Hazard classification**

GHS classification in accordance with 29 CFR 1910.1200 Serious eye damage - Category 1

## Label elements Hazard pictograms



Signal word: DANGER!

#### **Hazards**

Causes serious eye damage.

## **Precautionary statements**

#### Prevention

Wear eye protection/ face protection.

#### 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/doctor.

#### Other hazards

No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CASRN	Concentration
Glycerol propylene oxide	25791-96-2	> 55.0 - < 65.0 %
Talc	14807-96-6	> 25.0 - < 35.0 %
2,2'-Iminobisethanol, Propylene Oxide Polymer	35176-06-8	< 10.0 %
Phenyl Diethanolamine	120-07-0	< 10.0 %
Sucrose, propylene oxide	9049-71-2	< 10.0 %
Magnesium carbonate	546-93-0	< 5.0 %
Calcite	13397-26-7	< 5.0 %
Chlorite-group minerals	1318-59-8	< 5.0 %
Dolomite	16389-88-1	< 5.0 %
Trimethylolpropane poly(oxypropylene)triamine	39423-51-3	< 5.0 %

## 4. FIRST AID MEASURES

Description of first aid measures General advice:







First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

#### Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Chemical eye burns may require extended irrigation. Obtain prompt
consultation, preferably from an ophthalmologist. No specific antidote. Treatment of exposure should
be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

#### Special hazards arising from the substance or mixture

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

#### Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.





Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8. Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Collect in suitable and properly labeled containers. Absorb with materials such as: Cat litter. Sand. Sawdust. See Section 13, Disposal Considerations, for additional information.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

**Conditions for safe storage:** Store in accordance with good manufacturing practices.

Storage stability

Storage temperature: 10 - 35 °C (50 - 95 °F)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Magnesium carbonate	OSHA Z-1	TWA total dust	15 mg/m3
	OSHA Z-1	TWA respirable	5 mg/m3
		fraction	

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

#### **Exposure controls**





Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

## Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene. Neoprene. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Polyvinyl alcohol ("PVA"). Ethyl vinyl alcohol laminate ("EVAL"). Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

**Physical state** Liquid. Color Tan Odor Odorless

**Odor Threshold** No test data available pН No test data available Melting point/range No test data available Freezing point No test data available Boiling point (760 mmHg) No test data available

Flash point closed cup >110 °C (230 °F) Setaflash Closed Cup ASTM

D3828

**Evaporation Rate (Butyl Acetate** No test data available

Flammability (solid, gas) No

Lower explosion limit No test data available Upper explosion limit No test data available





Vapor Pressure No test data available
Relative Vapor Density (air = 1) No test data available

Relative Density (water = 1) 1.28 Calculated.

Water solubility

No test data available

Partition coefficient: n
No data available

octanol/water

Auto-ignition temperatureNo test data availableDecomposition temperatureNo test data availableKinematic ViscosityNo test data availableExplosive propertiesNo test data availableOxidizing propertiesNo test data availableMolecular weightNo data available

Volatile Organic Compounds 0.03 lb/gln EPA Method No. 24 (typical value)

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions: Will not occur by itself.

**Conditions to avoid:** Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

**Incompatible materials:** Avoid contact with oxidizing materials. Avoid contact with: Strong acids. Strong bases. Avoid contact with metals such as: Brass. Zinc. Copper. Avoid unintended contact with isocyanates. The reaction of polyols and isocyanates generates heat.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon dioxide. Alcohols. Ethers. Hydrocarbons. Ketones. Polymer fragments.

## 11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

#### **Acute toxicity**

#### Acute oral toxicity

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Single dose oral LD50 has not been determined.

## Acute dermal toxicity





Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD50 has not been determined.

## Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility; vapor from heated material may cause respiratory irritation. This material contains mineral and/or inorganic fillers. There is essentially no potential for inhalation exposure to these fillers incidental to industrial handling due to the physical state.

The LC50 has not been determined.

#### Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness.

Prolonged contact may cause moderate skin irritation with local redness.

#### Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

#### Sensitization

For the component(s) tested:

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## Specific Target Organ Systemic Toxicity (Repeated Exposure)

For the minor component(s):

May cause methemoglobinemia, thereby impairing the blood's ability to transport oxygen.

## Carcinogenicity

No relevant data found.

#### **Teratogenicity**

No relevant data found.

#### Reproductive toxicity

No relevant data found.

#### Mutagenicity

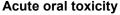
In vitro genetic toxicity studies were negative for component(s) tested. Genetic toxicity studies in animals were negative for component(s) tested.

#### **Aspiration Hazard**

Based on available information, aspiration hazard could not be determined.

#### COMPONENTS INFLUENCING TOXICOLOGY:

# Glycerol propylene oxide









Typical for this family of materials. LD50, Rat, > 2,000 mg/kg Estimated. No deaths occurred at this concentration.

## Acute dermal toxicity

Typical for this family of materials. LD50, Rat, male and female, > 2,000 mg/kg No deaths occurred at this concentration.

#### Acute inhalation toxicity

The LC50 has not been determined.

#### **Talc**

#### Acute oral toxicity

Single dose oral LD50 has not been determined.

## Acute dermal toxicity

The dermal LD50 has not been determined.

## Acute inhalation toxicity

The LC50 has not been determined.

## 2,2'-Iminobisethanol, Propylene Oxide Polymer

## **Acute oral toxicity**

Typical for this family of materials. LD50, Rat, > 2,000 mg/kg Estimated. No deaths occurred at this concentration.

#### Acute dermal toxicity

Typical for this family of materials. LD50, Rabbit, > 5,000 mg/kg

#### Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Vapor from heated material or mist may cause respiratory irritation.

Typical for this family of materials. No deaths occurred following exposure to a saturated atmosphere.

## **Phenyl Diethanolamine**

## Acute oral toxicity

LD50, Rat, 500 - 1,400 mg/kg

## Acute dermal toxicity

The dermal LD50 has not been determined.

#### Acute inhalation toxicity

The LC50 has not been determined.

## Sucrose, propylene oxide

## Acute oral toxicity

Typical for this family of materials. LD50, Rat, > 2,000 mg/kg Estimated. No deaths occurred at this concentration.

## Acute dermal toxicity

Typical for this family of materials. LD50, Rabbit, > 5,000 mg/kg

## Acute inhalation toxicity







Typical for this family of materials. No deaths occurred following exposure to a saturated atmosphere.

## Magnesium carbonate

## **Acute oral toxicity**

LD50, Rat, female, > 2,000 mg/kg OECD Test Guideline 420 No deaths occurred at this concentration.

#### Acute dermal toxicity

The dermal LD50 has not been determined.

#### Acute inhalation toxicity

The LC50 has not been determined.

## Calcite

## **Acute oral toxicity**

Single dose oral LD50 has not been determined.

#### Acute dermal toxicity

The dermal LD50 has not been determined.

## Acute inhalation toxicity

Dust may cause irritation to upper respiratory tract (nose and throat).

As product: The LC50 has not been determined.

## **Chlorite-group minerals**

#### Acute oral toxicity

Single dose oral LD50 has not been determined.

#### Acute dermal toxicity

The dermal LD50 has not been determined.

#### Acute inhalation toxicity

The LC50 has not been determined.

#### **Dolomite**

## **Acute oral toxicity**

Based on information for a similar material: LD50, Rat, > 2,000 mg/kg OECD Test Guideline 420

#### Acute dermal toxicity

Based on information for a similar material: LD50, Rat, > 2,000 mg/kg OECD Test Guideline 402

#### Acute inhalation toxicity

Brief exposure (minutes) is not likely to cause adverse effects. Dust may cause irritation to upper respiratory tract (nose and throat).

Based on information for a similar material: LC50, Rat, 4 Hour, dust/mist, > 3 mg/l

## Trimethylolpropane poly(oxypropylene)triamine

## **Acute oral toxicity**

LD50, Rat, male and female, 550 mg/kg OECD 401 or equivalent







## **Acute dermal toxicity**

LD50, Rat, male and female, > 1,000 mg/kg

#### Acute inhalation toxicity

The LC50 has not been determined.

## 12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

#### **Toxicity**

#### Glycerol propylene oxide

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

For this family of materials:

LC50, Leuciscus idus (Golden orfe), semi-static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203 or Equivalent

## Acute toxicity to aquatic invertebrates

For this family of materials:

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 100 mg/l, OECD Test Guideline 202 or Equivalent

## Acute toxicity to algae/aquatic plants

For this family of materials:

EC50, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, > 100 mg/l, OECD Test Guideline 201 or Equivalent

## Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, mortality, >= 10 mg/l

#### <u>Talc</u>

## Acute toxicity to fish

Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L). LC50, Danio rerio (zebra fish), 24 Hour, > 100,000 mg/l, Method Not Specified.

#### 2,2'-Iminobisethanol, Propylene Oxide Polymer

Acute toxicity to fish

No relevant data found.

#### **Phenyl Diethanolamine**

Acute toxicity to fish

No relevant data found.

#### Sucrose, propylene oxide

Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).







LC50, Danio rerio (zebra fish), static test, 96 Hour, 6,310 mg/l, OECD Test Guideline 203 or Equivalent

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 9,890 mg/l, OECD Test Guideline 202 or Equivalent

## Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, mortality, >= 10 mg/l

#### Magnesium carbonate

## Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). For similar material(s):

LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 2,820 mg/l

#### Acute toxicity to aquatic invertebrates

For similar material(s):

LC50, water flea Daphnia magna, static test, 48 Hour, 140 mg/l

#### Acute toxicity to algae/aquatic plants

For similar material(s):

EC50, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth inhibition, > 100 mg/l, OECD Test Guideline 201

For similar material(s):

NOEC, Desmodesmus subspicatus (green algae), static test, 100 mg/l

## Calcite

#### Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

#### Acute toxicity to aquatic invertebrates

Based on data from similar materials

EC50, Daphnia magna (Water flea), 48 Hour, > 100 mg/l, OECD Test Guideline 202

#### Acute toxicity to algae/aquatic plants

Based on data from similar materials

EC50, Desmodesmus subspicatus (green algae), 72 Hour, > 14 mg/l, OECD Test Guideline 201

#### Toxicity to bacteria

Based on data from similar materials

EC50, 3 Hour, > 1,000 mg/l, OECD Test Guideline 209

## **Chlorite-group minerals**

## Acute toxicity to fish

No relevant data found.

#### **Dolomite**

## Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Based on information for a similar material:







No toxicity at the limit of solubility

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 16.6 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

No toxicity at the limit of solubility
Based on data from similar materials
EC50, Daphnia magna (Water flea), 48 Hour, > 16.6 mg/l, OECD Test Guideline 202

## Acute toxicity to algae/aquatic plants

Based on data from similar materials

NOEC, Desmodesmus subspicatus (green algae), 72 Hour, 14 mg/l, OECD Test Guideline 201

## <u>Trimethylolpropane poly(oxypropylene)triamine</u>

## Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 100 mg/l

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 13 mg/l, OECD Test Guideline 202 or Equivalent

## Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, Growth rate inhibition, 4.4 mg/l, OECD Test Guideline 201 or Equivalent

## Toxicity to bacteria

EC50, activated sludge, Respiration inhibition, 0.5 Hour, > 1,000 mg/l, OECD 209 Test

#### Persistence and degradability

## Glycerol propylene oxide

**Biodegradability:** For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

10-day Window: Fail **Biodegradation:** 40 % **Exposure time:** 28 d

Method: OECD Test Guideline 301B or Equivalent

10-day Window: Not applicable

Biodegradation: 99 % Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

#### **Talc**

**Biodegradability:** Biodegradation is not applicable.

#### 2,2'-Iminobisethanol, Propylene Oxide Polymer





Biodegradability: Based on stringent OECD test guidelines, this material cannot be

considered as readily biodegradable; however, these results do not necessarily mean that the

material is not biodegradable under environmental conditions.

10-day Window: Fail **Biodegradation:** 46 % Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

## **Phenyl Diethanolamine**

Biodegradability: No relevant data found.

## Sucrose, propylene oxide

Biodegradability: Based on information for a similar material: Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability).

#### Magnesium carbonate

**Biodegradability:** Biodegradability is not applicable to inorganic substances.

#### Calcite

Biodegradability: Biodegradation is not applicable.

#### **Chlorite-group minerals**

Biodegradability: No relevant data found.

#### **Dolomite**

Biodegradability: Biodegradation is not applicable.

## Trimethylolpropane poly(oxypropylene)triamine

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail **Biodegradation:** < 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

#### Bioaccumulative potential

Bioaccumulation: No data available.

#### Mobility in soil

## Glycerol propylene oxide

No relevant data found.

## Talc

No data available.

## 2,2'-Iminobisethanol, Propylene Oxide Polymer

No relevant data found.

#### **Phenyl Diethanolamine**

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 10 Estimated.





## Sucrose, propylene oxide

No relevant data found.

#### Magnesium carbonate

No relevant data found.

#### Calcite

No relevant data found.

#### **Chlorite-group minerals**

No relevant data found.

#### **Dolomite**

No relevant data found.

#### <u>Trimethylolpropane poly(oxypropylene)triamine</u>

No relevant data found.

## 13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

#### 14. TRANSPORT INFORMATION

DOT

Not regulated for transport

#### Classification for SEA transport (IMO-IMDG):

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Not regulated for transport
Consult IMO regulations before transporting ocean bulk







## Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

Components	CASRN	RQ (RCRA Code)
Ethylene Oxide	75-21-8	10 lbs RQ
1,4-Dioxane	123-91-1	100 lbs RQ
Xylene	1330-20-7	100 lbs RQ
Xylene	1330-20-7	100 lbs RQ (F003)

## Pennsylvania Worker and Community Right-To-Know Act:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

ComponentsCASRNTalc14807-96-6

#### California Prop. 65

WARNING: This product can expose you to chemicals including Aniline, Ethylbenzene, Acetaldehyde, Ethylene Oxide, which is/are known to the State of California to cause cancer, and Ethylene Oxide, Toluene, 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.

## **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

## 16. OTHER INFORMATION

**Hazard Rating System** 







#### **NFPA**

Health	Flammability	Instability
3	1	0

#### Revision

Identification Number: 324619 / A749 / Issue Date: 10/17/2018 / Version: 5.1 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
TWA	8-hour time weighted average

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation. and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA -Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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