



## Safety Data Sheet

### Section 1. Identification

**Product name** : ALPHA® HiTech™ AD43-9600W  
**Product code** : 249729  
**Product type** : Solid.  
**Date of issue/Date of revision** : September 20 2023.

| Manufacturer - Supplier  | Telephone no.:  | Emergency phone:                              |
|--|---|---|
| Alpha Assembly Solutions Inc.<br>Global Headquarters<br>140 Centennial Avenue<br>Piscataway, NJ 08854                  | Toll Free: (800) 367-5460<br>Main Phone: (908) 791-3000 | DOMESTIC NORTH AMERICA<br>202-464-2554        |
| ALPHA METALS MEXICO SA DE CV<br>Ave Nafta 800, Parque Industrial STIVA<br>Apodaca NL 66600 Mexico                      | Tel: +52 81 1156-6602                                   | Tel: 01 800 022 1400<br>Tel: +52 55 5559-1588 |
| Alpha Assembly Solutions Brasil Soldas Ltda<br>Rio Jaguarão, 1540 - Vila Buriti<br>Manaus Amazonas 69072-055<br>Brasil | Tel: 55 92 3614-7400                                    | Tel: 55 92 3614-7423                          |

### Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (Respiratory tract irritation) - Category 3  
AQUATIC HAZARD (ACUTE) - Category 2  
AQUATIC HAZARD (LONG-TERM) - Category 2

#### GHS label elements

##### Hazard pictograms



**Signal word** : Warning

Continued on next page

## Section 2. Hazards identification

- Hazard statements** : Harmful if swallowed or if inhaled.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of causing genetic defects.  
Suspected of causing cancer.  
Toxic to aquatic life with long lasting effects.
- Precautionary statements**
- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
- Response** : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name  | %     | CAS number |
|--|-------|------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane  | 30-40 | 1675-54-3  |
| pentaerythritol tetrakis(3-mercaptopropionate)   | 10-20 | 7575-23-7  |
| 2-ethyl-2-[(3-mercapto-1-oxopropoxy)methyl]propane-1,3-diyl bis [3-mercaptopropionate] | 10-20 | 33007-83-9 |
| calcium carbonate  | 1-10  | 471-34-1   |
| STABILIZER   | 1-10  | -          |
| Inorganic filler   | 1-10  | -          |
| 2,2'-[(octahydro-4,7-methano-1H-indenediyl)bis(methyleneoxymethylene)] dioxirane       | 1-10  | 50985-55-2 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
halogenated compounds  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

**Small spill** : Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

: Do not store above the following temperature: -20°C (-4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

calcium carbonate

**NIOSH REL (United States, 10/2016).**

TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction

TWA: 10 mg/m<sup>3</sup> 10 hours. Form: Total

Inorganic filler

**OSHA PEL (United States, 6/2016).**

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust

**ACGIH TLV (United States, 3/2017). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. 1996 Adoption Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) : 36338-33351, June 30, 1993, for revised OSHA PEL. Refers to Appendix A -- Carcinogens.**

TWA: 10 mg/m<sup>3</sup> 8 hours.

#### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

## Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Solid. [Paste.]
- Color** : White.
- Odor** : None
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : Not available.
- Flash point** : Closed cup: >93.3°C (>199.9°F)
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not applicable.
- Vapor pressure** : Not available.
- Relative vapor density** : Not applicable.
- Relative density** : Not available.
- Solubility** : Very slightly soluble in the following materials: cold water and hot water.
- VOC** : 0.51 g/l

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## Section 9. Physical and chemical properties and safety characteristics

|   |                   |
|---|-------------------|
| <b>Partition coefficient: n-octanol/water</b> | : Not applicable. |
| <b>Auto-ignition temperature</b>              | : Not applicable. |
| <b>Decomposition temperature</b>              | : Not available.  |
| <b>Viscosity</b>                              | : Not applicable. |
| <b>Flow time (ISO 2431)</b>                   | : Not available.  |
| <b>Particle characteristics</b>               |                   |
| <b>Median particle size</b>                   | : Not available.  |

## Section 10. Stability and reactivity

|  |  |
|--|--|
| <b>Reactivity</b>                              | : No specific test data related to reactivity available for this product or its ingredients.   |
| <b>Chemical stability</b>                      | : The product is stable.   |
| <b>Possibility of hazardous reactions</b>      | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>Incompatibility with various substances</b> | : Reactive or incompatible with the following materials: alkalis.<br>Slightly reactive or incompatible with the following materials: acids and moisture.<br>Non-reactive or compatible with the following materials: oxidizing materials, reducing materials, combustible materials, organic materials and metals. |
| <b>Hazardous decomposition products</b>        | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |
| <b>Hazardous polymerization</b>                | : Under normal conditions of storage and use, hazardous polymerization will not occur.   |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name  | Result      | Species | Dose        | Exposure |
|--|-------------|---------|-------------|----------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane<br>calcium carbonate<br>STABILIZER | LD50 Dermal | Rabbit  | 20 g/kg     | -        |
|  | LD50 Oral   | Rat     | 6450 mg/kg  | -        |
|  | LD50 Dermal | Mouse   | >1270 mg/kg | -        |
|  | LD50 Dermal | Rat     | >1200 mg/kg | -        |
|  | LD50 Oral   | Mouse   | >500 mg/kg  | -        |
|  | LD50 Oral   | Rat     | 11.4 g/kg   | -        |
|  | LD50 Oral   | Rat     | 11400 mg/kg | -        |
|  | LD50 Oral   | Rat     | 13600 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name                 | Result                   | Species | Score | Exposure                | Observation |
|---|--------------------------|---------|-------|-------------------------|-------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams   | -           |
|   | Skin - Mild irritant     | Rabbit  | -     | 500 milligrams          | -           |
| calcium carbonate                       | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 750 Micrograms | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| Inorganic filler                        | Skin - Mild irritant     | Human   | -     | 72 hours 300 Micrograms | -           |
|   |                          |         |       | Intermittent            | -           |

#### Sensitization

Not available.

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## Section 11. Toxicological information

### Mutagenicity

| Product/ingredient name | Test | Experiment  | Result    |
|-------------------------|------|---|-----------|
| STABILIZER              | -    | Experiment: In vitro<br>Subject: Mammalian-Animal | Equivocal |
|                         | -    | Experiment: In vitro<br>Subject: Yeast            | Equivocal |

### Carcinogenicity

Not available.

**Additional information:** : **Inorganic filler:** Carcinogen status based on inhalation of particulate form of this chemical. If this product is a liquid, exposure to this particulate is unlikely under ordinary conditions of use.

### Classification

| Product/ingredient name                 | OSHA | IARC | NTP |
|---|------|------|-----|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | -    | 3    | -   |
| Inorganic filler                        | -    | 2B   | -   |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| pentaerythritol tetrakis(3-mercaptopropionate)  | Category 3 | -                 | Respiratory tract irritation |
| 2-ethyl-2-[(3-mercapto-1-oxopropoxy)methyl]propane-1,3-diyl bis[3-mercaptopropionate] | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : Harmful if inhaled. May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness  
**Inhalation** : Adverse symptoms may include the following:  
 respiratory tract irritation  
 coughing

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## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : Suspected of causing genetic defects.
- Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route               | ATE value     |
|---------------------|---------------|
| Oral                | 1308.35 mg/kg |
| Dermal              | 2897.01 mg/kg |
| Inhalation (vapors) | 13.83 mg/l    |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                                | Species  | Exposure |
|-------------------------|---------------------------------------|--|----------|
| calcium carbonate       | Acute LC50 >56000 ppm Fresh water     | Fish - Gambusia affinis - Adult  | 96 hours |
|                         | Chronic NOEC 61 mg/g Fresh water      | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 28 days  |
| Inorganic filler        | Acute LC50 3 mg/l Fresh water         | Crustaceans - Ceriodaphnia dubia - Neonate                             | 48 hours |
|                         | Acute LC50 6.5 mg/l Fresh water       | Daphnia - Daphnia pulex - Neonate                                      | 48 hours |
|                         | Acute LC50 >1000000 µg/l Marine water | Fish - Fundulus heteroclitus   | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

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## Section 12. Ecological information

| Product/ingredient name                         | LogP <sub>ow</sub> | BCF  | Potential |
|---|--------------------|------|-----------|
| pentaerythritol tetrakis (3-mercaptopropionate) | 3.03               | 23.7 | low       |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | DOT Classification | TDG Classification | Mexico Classification | UN             | IMDG           | IATA           |
|----------------------------|--------------------|--------------------|-----------------------|----------------|----------------|----------------|
| UN number                  | Not regulated.     | Not regulated.     | Not regulated.        | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -                  | -                  | -                     | -              | -              | -              |
| Transport hazard class(es) | -                  | -                  | -                     | -              | -              | -              |
| Packing group              | -                  | -                  | -                     | -              | -              | -              |
| Environmental hazards      | No.                | No.                | No.                   | No.            | No.            | No.            |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 5(a)2 proposed significant new use rule (SNUR): No products were found.  
TSCA 5(a)2 final significant new use rule (SNUR): No products were found.  
TSCA 12(b) one-time export notification: No products were found.  
TSCA 12(b) annual export notification: No products were found.

**United States inventory (TSCA 8b)** : All components are listed or exempted.

### SARA 302/304

#### Composition/information on ingredients

No products were found.

### SARA 311/312

**Classification** : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (Respiratory tract irritation) - Category 3

### California Prop. 65

**⚠ WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Canada

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in NDSL.

### International regulations

#### Inventory list

**Australia** : At least one component is not listed.  
**China** : All components are listed or exempted.  
**Japan** : Not determined.  
**New Zealand** : At least one component is not listed.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |
|------------------|---|
| Health           | 2 |
| Flammability     | 0 |
| Physical hazards | 0 |
|                  |   |

### Procedure used to derive the classification

| Classification   | Justification      |
|--|--------------------|
| ACUTE TOXICITY (oral) - Category 4   | Calculation method |
| ACUTE TOXICITY (inhalation) - Category 4                                   | Calculation method |
| SKIN IRRITATION - Category 2   | Calculation method |
| EYE IRRITATION - Category 2A   | Calculation method |
| SKIN SENSITIZATION - Category 1  | Calculation method |
| GERM CELL MUTAGENICITY - Category 2  | Calculation method |
| CARCINOGENICITY - Category 2   | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (Respiratory tract irritation) - Category 3 | Calculation method |

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## Section 16. Other information

|   |                    |
|---|--------------------|
| AQUATIC HAZARD (ACUTE) - Category 2     | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 2 | Calculation method |

### History

**Date of issue/Date of revision** : 9/20/2023

**Date of previous issue** : 3/11/2023

**Version** : 1.04

**Regulatory Affairs Department**  
**enthone.msds@macdermidenthone.com**

### Key to abbreviations

- : ATE = Acute Toxicity Estimate
- : BCF = Bioconcentration Factor
- : GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- : IATA = International Air Transport Association
- : IBC = Intermediate Bulk Container
- : IMDG = International Maritime Dangerous Goods
- : LogPow = logarithm of the octanol/water partition coefficient
- : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- : N/A = Not available
- : SGG = Segregation Group
- : UN = United Nations

### References

- : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.