

# SAFETY DATA SHEET

## SLUGGER 4.0 SLUG & SNAIL BAIT



### Section 1. Identification

|   |   |
|---|---|
| <b>GHS product identifier</b>                               | : SLUGGER 4.0 SLUG & SNAIL BAIT   |
| <b>Other means of identification</b>                        | : Active ingredients: Metaldehyde, CAS Nr 108-62-3, 4%  |
| <b>Product code</b>   | : EPA Registration Number: 71096-13   |
| <b>Product use</b>  | : Pesticide. Molluscicides.   |
| <b>Supplier's details</b>                                   | : OR-CAL Inc.<br>29454 Meadowview Rd.<br>Junction City, OR 97448<br>541-689-4413 (Office)<br>541-689-5026 (FAX)<br>www.orcalinc.com<br>EPA Establishment No. 66876-OR-001 |
| <b>e-mail address of person responsible for this SDS</b>    | : chelsea@orcalinc.com  |
| <b>Emergency telephone number (with hours of operation)</b> | : CHEMTREC: 1-800-424-9300 (US and Canada)<br>National Pesticide Information Center: 1-800-858-7378<br>American Association of Poison Control Centers: 1-800-222-1222     |

### Section 2. Hazards identification

|   |  |
|---|--|
| <b>OSHA/HCS status</b>                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  |
| <b>Classification of the substance or mixture</b> | : ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2B   |
| <b>GHS label elements</b>                         |  |
| <b>Hazard pictograms</b>                          | :  |
| <b>Signal word</b>                                | : Warning  |
| <b>Hazard statements</b>                          | : Harmful if swallowed, in contact with skin or if inhaled.<br>Causes eye irritation.  |
| <b>Precautionary statements</b>                   |  |
| <b>Prevention</b>                                 | : Wear protective gloves and protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing dust or mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  |
| <b>Response</b>                                   | : 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. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. 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. |
| <b>Storage</b>                                    | : Not applicable.  |

## Section 2. Hazards identification

|   |   |
|---|---|
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| <b>Hazards not otherwise classified</b> | : None known.   |
| <b>Hazards identified when used</b>     | : No known significant effects or critical hazards.   |

## Section 3. Composition/information on ingredients

|                                      |  |
|--------------------------------------|--|
| <b>Substance/mixture</b>             | : Mixture  |
| <b>Other means of identification</b> | : Active ingredients: Metaldehyde, CAS Nr 108-62-3, 4% |
| <b>Product code</b>                  | : EPA Registration Number: 71096-13                    |

| Ingredient name                                 | Synonyms   | %         | Identifiers     |
|---|--|-----------|-----------------|
| Proprietary                                     |  | ≥60 - ≤80 | -               |
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | metaldehyde (ISO); metaldehyde; 1,3,5,7-Tetroxocane, 2,4,6,8-tetramethyl-; Acetaldehyde, tetramer; Metaldehyde (2,4,6,8-tetramethyl-1,3,5,7-Tetroxocane); 2,4,6,8-Tetramethyl-1,3,5,7-tetraoxocane; 2,4,6,8-tetramethyl-1,3,5,7-tetraoxocane; Metaldehyde (tetramer); Tetraacetaldehyde; Ariotox; Slug-tox | ≥1 - ≤5   | CAS: 108-62-3   |
| sulfur  | Sulfur, excluding formed sulfur; Sulphur; sulfur, precipitated, sublimed or colloidal; sulfur, other than precipitated, sublimed or colloidal; COLLOIDAL SULFUR; Sulfur and gum arabic; Brimstone; Flour sulfur; Flowers of sulfur; Planisan; Sulphur fa   | ≥1 - ≤5   | CAS: 7704-34-9  |
| Formaldehyde, solution                          | formaldehyde; Formalin; Formic aldehyde; Methaldehyde; Methanal; Oxomethane; Oxymethylene; Formaldehyde solution; Methylene oxide; Methyl aldehyde   | ≤0.1      | CAS: 50-00-0    |
| crystalline silica, respirable powder           | alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica-Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz  | ≤0.1      | CAS: 14808-60-7 |

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** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes 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 adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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 10 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. 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 eye irritation.

**Inhalation** : Harmful if inhaled.

**Skin contact** : Harmful in contact with skin.

**Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

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

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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 fumes 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.

### **See toxicological information (Section 11)**

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
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).

### Methods and materials for containment and cleaning up

**Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. 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.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

## Section 7. Handling and storage

### 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** : 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. 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

| Ingredient name                                 | Exposure limits  |
|---|--|
| Proprietary                                     | None.  |
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | None.  |
| sulfur  | None.  |
| Formaldehyde, solution                          | <p><b>NIOSH REL (United States, 10/2020)</b> NIA.<br/>           TWA 10 hours: 0.016 ppm.<br/>           CEIL 15 minutes: 0.1 ppm.</p> <p><b>OSHA PEL Z2 (United States, 2/2013)</b><br/>           TWA 8 hours: 0.75 ppm.<br/>           STEL 15 minutes: 2 ppm.</p> <p><b>CAL OSHA PEL (United States, 1/2025)</b><br/>           STEL 15 minutes: 2 ppm.<br/>           TWA 8 hours: 0.75 ppm.</p> <p><b>OSHA PEL (United States, 5/2018)</b><br/>           TWA 8 hours: 0.75 ppm.<br/>           STEL 15 minutes: 2 ppm.</p> <p><b>OSHA PEL 1989 (United States, 3/1989)</b><br/>           TWA 8 hours: 0.75 ppm.<br/>           STEL 15 minutes: 2 ppm.</p> <p><b>ACGIH TLV (United States, 1/2025)</b> A1. Skin sensitizer, Inhalation sensitizer.<br/>           STEL 15 minutes: 0.3 ppm.<br/>           TWA 8 hours: 0.1 ppm.</p> |
| crystalline silica, respirable powder           | <p><b>NIOSH REL (United States, 10/2020)</b><br/> <b>[SILICA, CRYSTALLINE]</b> NIA.<br/>           TWA 10 hours: 0.05 mg/m<sup>3</sup>. Form: respirable dust.</p> <p><b>CAL OSHA PEL (United States, 1/2025)</b><br/>           TWA 8 hours: 0.05 mg/m<sup>3</sup>.</p> <p><b>OSHA PEL Z3 (United States, 6/2016)</b><br/>           TWA 8 hours: 250 / (%SiO<sub>2</sub>+5) mppcf. Form: Respirable.<br/>           TWA 8 hours: 10 / (%SiO<sub>2</sub>+2) mg/m<sup>3</sup>. Form: Respirable.</p> <p><b>OSHA PEL (United States, 5/2018) [Silica, crystalline]</b><br/>           TWA 8 hours: 50 µg/m<sup>3</sup>. Form: Respirable dust.</p> <p><b>OSHA PEL 1989 (United States, 3/1989)</b></p>  |

## Section 8. Exposure controls/personal protection

TWA 8 hours: 0.1 mg/m<sup>3</sup> (as quartz). Form: Respirable dust.  
**ACGIH TLV (United States, 1/2025) [Silica, crystalline] A2.**  
TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form: Respirable fraction.

### Biological exposure indices

None known.

#### 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

#### 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. 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.

**Recommended:** barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride ≥14 mils, or viton ≥14 mils.

##### 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.

**Recommended:** Ensure an MSHA/NIOSH-approved respirator or equivalent is used.

## Section 9. Physical and chemical properties

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

### Appearance

|   |   |
|---|---|
| <b>Physical state</b>   | : Solid. [Pellets.]   |
| <b>Color</b>  | : Blue. Green. Brown.   |
| <b>Odor</b>   | : Minty. Grain.   |
| <b>Odor threshold</b>   | : Not available.  |
| <b>pH</b>   | : 5.5 to 7  |
| <b>Melting point/freezing point</b>                             | : 246°C (474.8°F)   |
| <b>Boiling point or initial boiling point and boiling range</b> | : Not available.  |
| <b>Flash point</b>  | : Not applicable.   |
| <b>Evaporation rate</b>   | : Not available.  |
| <b>Flammability</b>   | : Not applicable.   |
| <b>Lower and upper explosion limit/flammability limit</b>       | : Not applicable.   |
| <b>Vapor pressure</b>   | : Not available.  |
| <b>Relative vapor density</b>                                   | : Not applicable.   |
| <b>Relative density</b>   | : 0.7   |
| <b>Solubility in water</b>                                      | : Insoluble.  |
| <b>Partition coefficient: n-octanol/water</b>                   | : Not applicable.   |
| <b>Auto-ignition temperature</b>                                | : Not applicable.   |
| <b>Decomposition temperature</b>                                | : Not applicable.   |
| <b>Viscosity</b>  | : Dynamic (room temperature): Not applicable.<br>Kinematic (room temperature): Not applicable.<br>Kinematic (40°C (104°F)): Not applicable. |
| <b>Explosive properties</b>                                     | : Not available.  |
| <b>Oxidizing properties</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>Conditions to avoid</b>                | : Keep away from heat, sparks and flame.   |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials: Oxidizing materials.                          |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result and Species                          | Dose [Exposure] | Remarks |
|---|---|-----------------|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane<br><br>sulfur<br><br>Formaldehyde, solution | Oral - Rat - Male, Female - LD50 [OECD 401] | 283 mg/kg       | -       |
|   | Dermal - Rat - LD50                         | >5000 mg/kg     | -       |
|   | Dermal - Rat - LD50                         | >2000 mg/kg     | -       |
|   | Oral - Rat - LD50                           | >2200 mg/kg     | -       |
|   | Oral - Rat - LD50                           | 100 mg/kg       | -       |
|   | Dermal - Rabbit - LD50                      | 270 ul/kg       | -       |

**Conclusion/Summary** : Harmful if swallowed, in contact with skin or if inhaled.

#### Irritation/Corrosion

| Product/ingredient name                         | Result and Species                                       | Exposure                                | Remarks |
|---|--|---|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | Skin - Rabbit - Non-irritating to the skin. - [OECD 404] | Duration of treatment/exposure: 4 hours | -       |
|   | Eyes - Rabbit - Slight irritant - [OECD 405]             | -                                       | -       |
| Formaldehyde, solution                          | Eyes - Rabbit - Severe irritant                          | -                                       | -       |

#### Conclusion/Summary

**Skin** : Based on available data, the classification criteria are not met.

**Eyes** : Causes eye irritation.

**Respiratory** : Not available.

#### Respiratory or skin sensitization

| Product/ingredient name                         | Route of exposure and Species                                | Result          | Remarks |
|---|--|-----------------|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | skin - Mouse<br>[Skin Sensitization: Local Lymph Node Assay] | Not sensitizing | -       |
|   | skin - Guinea pig<br>[Test type: Buehler Test]               | Not sensitizing | -       |

#### Conclusion/Summary

**Skin** : Based on available data, the classification criteria are not met.

**Respiratory** : Not available.

#### Mutagenicity

| Product/ingredient name                         | Result  | Experiment                      | Remarks |
|---|---|---------------------------------|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | Negative<br>[OECD 471 [Test type: Ames Test]]                           | In vitro - S. typhimurium       | -       |
|   | Negative<br>[OECD 476 [Test type: gene mutation assay]]                 | In vitro - mouse lymphoma cells | -       |
|   | Negative<br>[OECD 473 [Test type: Chromosome aberration test In vitro]] | In vitro - Hamster              | -       |
|   | Negative  | In vivo - Mouse                 | -       |

## Section 11. Toxicological information

[OECD 474 [Test type: In vivo Micronucleus-test]]

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Carcinogenicity

| Product/ingredient name                         | Result              | Species and Route of exposure | Dose [Exposure] | Remarks |
|---|---------------------|-------------------------------|-----------------|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | Negative [OECD 451] | Mouse - Oral -                | -               | -       |
|   | Negative [OECD 453] | Rat - Oral -                  | -               | -       |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Classification

| Product/ingredient name               | OSHA | IARC | NTP                             |
|---------------------------------------|------|------|---------------------------------|
| Formaldehyde, solution                | +    | 1    | Known to be a human carcinogen. |
| crystalline silica, respirable powder | +    | 1    | Known to be a human carcinogen. |

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Name                   | Category   | Route of exposure | Target organs                |
|------------------------|------------|-------------------|------------------------------|
| Proprietary            | Category 3 | -                 | Respiratory tract irritation |
| Formaldehyde, solution | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Name                                  | Category   | Route of exposure | Target organs |
|---------------------------------------|------------|-------------------|---------------|
| Proprietary                           | Category 2 | inhalation        | -             |
| crystalline silica, respirable powder | Category 1 | inhalation        | lungs         |

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : Harmful if inhaled.

**Skin contact** : Harmful in contact with skin.

**Ingestion** : Harmful if swallowed.

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

## Section 11. Toxicological information

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : No specific data.  |
| <b>Skin contact</b> | : No specific data.  |
| <b>Ingestion</b>    | : 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

| Product/ingredient name                         | Result and Species                                 | Dose [Exposure]                         | Remarks |
|---|--|---|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | Dermal - Chronic - Rabbit - NOAEL [Method: US EPA] | >1000 mg/kg [5 days per week] [21 days] | -       |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                         | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Metaldehyde 4 GB                                | 500          | 1100           | N/A                      | 11                         | N/A                                 |
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | 283          | N/A            | N/A                      | N/A                        | N/A                                 |
| sulfur  | 2500         | 2500           | N/A                      | N/A                        | N/A                                 |
| Formaldehyde, solution                          | 500          | N/A            | 100                      | N/A                        | N/A                                 |

## Section 12. Ecological information

#### Toxicity

## Section 12. Ecological information

| Product/ingredient name                         | Result [Exposure]                                  | Species                                      | Remarks |
|---|--|--|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | Acute - LC50<br>75 mg/l [96 hours]<br>[OECD 203]   | Fish - Trout -<br><i>Oncorhynchus mykiss</i> | -       |
|   | Chronic - NOEC<br>>25 mg/l [35 days]<br>[OECD 210] | Fish - <i>Danio rerio</i>                    | -       |
|   | Acute - EC50<br>>100 mg/l [48 hours]<br>[OECD 202] | Daphnia - <i>Daphnia magna</i>               | -       |
|   | Chronic - NOEC<br>>98 mg/l [21 days]<br>[OECD 211] | Daphnia - <i>Daphnia magna</i>               | -       |
|   | Acute - EC50<br>>200 mg/l [72 hours]<br>[OECD 201] | Algae - <i>Desmodesmus subspicatus</i>       | -       |
|   | Chronic - NOEC<br>>25 mg/l [33 days]<br>[OECD 210] | Fish - <i>Danio rerio</i>                    | -       |
|   | Acute - EC50<br>>1000 mg/l [3 hours]<br>[OECD 209] | Activated sludge                             | -       |
|   | Acute - LC50<br>24.1 mg/l [96 hours]               | Fish - <i>Fathead minnow</i>                 | -       |
|   | Acute - LC50<br>0.1 mg/l [96 hours]                | Fish - <i>Bluegill</i>                       | -       |
|   | Acute - EC50<br>20 mg/l [96 hours]                 | Crustaceans - <i>water flea</i>              | -       |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Persistence and degradability

| Product/ingredient name                         | Test      | Result                       | Remarks |
|---|-----------|------------------------------|---------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | OECD 301F | 2.8% [28 days] - Not readily | -       |
|   | OECD 302B | 6% [28 days] - Not readily   | -       |

**Conclusion/Summary** : There are no data available on the mixture itself.

| Product/ingredient name                         | Aquatic half-life   | Photolysis | Biodegradability |
|---|---|------------|------------------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | >360 days [Fresh water] [pH 5 to 9]<br>[25 °C]<br>Method: EPA-FIFRA | -          | Not readily      |
| Formaldehyde, solution                          | -   | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name                         | LogP <sub>ow</sub> | BCF | Potential |
|---|--------------------|-----|-----------|
| 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane | <1                 | -   | Low       |

## Section 12. Ecological information

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

**Mobility** : 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.

**Pesticide Disposal:** To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments).

## Section 14. Transport information

|                                   | DOT Classification | TDG Classification | Mexico Classification | ADR/RID        | IMDG                 | IATA           |
|-----------------------------------|--------------------|--------------------|-----------------------|----------------|----------------------|----------------|
| <b>UN number</b>                  | Not regulated.     | Not regulated.     | Not regulated.        | Not regulated. | Not regulated.       | Not regulated. |
| <b>UN proper shipping name</b>    | -                  | -                  | -                     | -              | -                    | -              |
| <b>Transport hazard class(es)</b> | -                  | -                  | -                     | -              | -                    | -              |
| <b>Label</b>                      |                    |                    |                       |                |                      |                |
| <b>Packing group</b>              | -                  | -                  | -                     | -              | -                    | -              |
| <b>Environmental hazards</b>      | No.                | No.                | No.                   | No.            | Marine Pollutant: 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.

**Transport in bulk according to IMO instruments** : Not intended.

## Section 15. Regulatory information

### U.S. Federal regulations

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with eyes, skin and clothing. Avoid breathing dust. **IMPORTANT:** This product can be harmful to children and fatal to domestic animals when ingested. Children and dogs may be attracted to the product. Application of this product is prohibited unless children and domestic animals can be excluded from the treated area from the start of the application until applied material is no longer visible.

**EPA Registration Number:** 71096-13

**Clean Water Act (CWA) 311:** Formaldehyde, solution

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112 :** Listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 :** Not listed  
**Class I Substances**

**Clean Air Act Section 602 :** Not listed  
**Class II Substances**

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

| Name                   | %    | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|------------------------|------|------|--------------|-----------|-------------|-----------|
|                        |      |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| Formaldehyde, solution | ≤0.1 | Yes. | 500          | -         | 100         | -         |

**SARA 304 RQ** : 366143.4 lbs / 166229.1 kg

### SARA 311/312

**Classification** : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (dermal) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
EYE IRRITATION - Category 2B

#### Composition/information on ingredients

| Name                 | %         | Classification   |
|----------------------|-----------|--|
| Proprietary          | ≥60 - ≤80 | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2B<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| 2,4,6,8-tetramethyl- | ≥1 - ≤5   | FLAMMABLE SOLIDS - Category 2  |

## Section 15. Regulatory information

|                                       |         |  |
|---------------------------------------|---------|--|
| 1,3,5,7-tetraoxacyclooctane           |         | ACUTE TOXICITY (oral) - Category 3   |
| sulfur                                | ≥1 - ≤5 | COMBUSTIBLE DUSTS<br>SKIN IRRITATION - Category 2  |
| Formaldehyde, solution                | ≤0.1    | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 2<br>SKIN CORROSION - Category 1B<br>SERIOUS EYE DAMAGE - Category 1<br>SKIN SENSITIZATION - Category 1A<br>GERM CELL MUTAGENICITY - Category 2<br>CARCINOGENICITY - Category 1B<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3 |
| crystalline silica, respirable powder | ≤0.1    | CARCINOGENICITY - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1   |

### State regulations

|                      |   |
|----------------------|---|
| <b>Massachusetts</b> | : The following components are listed: METALDEHYDE; SULFUR                                |
| <b>New York</b>      | : None of the components are listed.  |
| <b>New Jersey</b>    | : The following components are listed: METALDEHYDE; SULFUR                                |
| <b>Pennsylvania</b>  | : The following components are listed: 1,3,5,7-TETROXOCANE, 2,4,6,8-TETRAMETHYL- ; SULFUR |

### California Prop. 65

 **WARNING:** This product can expose you to chemicals including Formaldehyde and Silica, crystalline, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name                     | No significant risk level | Maximum acceptable dosage level |
|-------------------------------------|---------------------------|---------------------------------|
| Formaldehyde<br>Silica, crystalline | Yes.<br>-                 | -                               |

### EPA PFAS Compilation from Comptox

Not listed.

### TSCA 8(a)7 - One-time Reporting PFAS

Not listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

#### OECD Comprehensive Global PFAS Database

Not listed.

## Section 15. Regulatory information

### Inventory list

United States : All components are listed or exempted.

## Section 16. Other information

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

| Classification                           | Justification   |
|--|-----------------|
| ACUTE TOXICITY (oral) - Category 4       | Regulatory data |
| ACUTE TOXICITY (dermal) - Category 4     | Regulatory data |
| ACUTE TOXICITY (inhalation) - Category 4 | Regulatory data |
| EYE IRRITATION - Category 2B             | Regulatory data |

### History

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**Key to abbreviations** : ADR = Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
DOT = Department of Transportation  
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  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SGG = Segregation Group  
TDG = Transportation of Dangerous Goods  
UN = United Nations

**References** : Not available.

► Indicates information that has changed from previously issued version.

### Notice to reader

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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.