SAFETY DATA SHEET

1. Identification

Product identifier CETCO® DEFOAMER

Other means of identification None.

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer CETCO, an MTI Company

Address 2870 Forbs Avenue

Hoffman Estates, IL 60192

United States

Telephone General Information 800 527-9948

Website http://www.cetco.com/

E-mail safetydata@mineralstech.com

Emergency phone number Emergency 1.866.519.4752/1 760 476 3962

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3

Hazardous to the aquatic environment, long-term hazard Category 3

Label elements

Signal word Danger

Hazard statement May be fatal if swallowed and enters airways. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Keep out of reach of children. Read label before use. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response If medical advice is needed, have product container or label at hand. IF SWALLOWED: Immediately call a POISON CENTER/doctor. DO NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards Combustible.

Supplemental information 20% of the mixture consists of component(s) of unknown acute oral toxicity. 20% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures
**Composition comments**  
The full text for all R- and H-phrases is displayed in section 16.

### 4. First-aid measures

**Inhalation**  
If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air.

**Skin contact**  
Immediately flush skin with plenty of water. Launder contaminated clothing before reuse.

**Eye contact**  
Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion**  
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs.  

**Most important symptoms/effects, acute and delayed**  
Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation.

**Indication of immediate medical attention and special treatment needed**  
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**  
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

**Suitable extinguishing media**  
Alcohol resistant foam. Powder. Dry chemical, CO2, water spray or regular foam. Dry chemicals. Use methods for the surrounding fire.

**Unsuitable extinguishing media**  
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**  
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Fire fighting equipment/instructions**  
Cool containers exposed to heat with water spray and remove container, if no risk is involved.

**Specific methods**  
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**  
Combustible. No unusual fire or explosion hazards noted.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**  
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**  
Stop leak if you can do so without risk. Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains.

**Large Spills:** Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

**Small Spills:** Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Never return spills to original containers for re-use. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.** For waste disposal, see section 13 of the SDS.
Environmental precautions
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage
Precautions for safe handling
Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Keep away from heat and flame.

Conditions for safe storage, including any incompatibilities
Store locked up. Keep away from heat and sources of ignition. Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection
Occupational exposure limits
Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated light (CAS 64742-47-8)</td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>Non-aerosol</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Canada - British Columbia OELs: Skin designation
Distillates, petroleum, hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Good general ventilation should be sufficient to control airborne levels. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

Individual protection measures, such as personal protective equipment
Eye/face protection
Face shield is recommended. Chemical respirator with organic vapor cartridge and full facepiece. Applicable for industrial settings only.

Skin protection
Hand protection
Wear appropriate chemical resistant gloves. Applicable for industrial settings only.

Other
Applicable for industrial settings only. The use of natural rubber gloves is recommended.

Respiratory protection
Chemical respirator with organic vapor cartridge and full facepiece. Applicable for industrial settings only. Not normally needed. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene practices in handling this material. Eye wash fountain is recommended.

9. Physical and chemical properties
Appearance
Opaque.

Physical state
Liquid.

Form
Liquid.

Color
White.

Odor
Slight.

Odor threshold
Not available.

pH
7 - 8

Melting point/freezing point
Not available.

Initial boiling point and boiling range
> 212 °F (> 100 °C) estimated
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>$&lt; 1$</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available</td>
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<tr>
<td>Explosive limit - upper (%)</td>
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</tr>
<tr>
<td>Vapor pressure</td>
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</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

**Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**

Stable at normal conditions.

**Possibility of hazardous reactions**

Will not occur.

**Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Avoid temperatures above 214°F (101.1°C).

**Incompatible materials**

Strong oxidizing agents. Strong acids, alkalies and oxidizing agents.

**Hazardous decomposition products**

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

### 11. Toxicological information

**Information on likely routes of exposure**

- **Inhalation**
  
  May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

- **Skin contact**
  
  No adverse effects due to skin contact are expected.

- **Eye contact**
  
  Direct contact with eyes may cause temporary irritation.

- **Ingestion**
  
  Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. May cause discomfort if swallowed. Expected to be a low ingestion hazard. However, ingestion is not likely to be a primary route of occupational exposure.

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

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.

**Information on toxicological effects**

- **Acute toxicity**
  
  May be fatal if swallowed and enters airways.

- **Skin corrosion/irritation**
  
  Prolonged skin contact may cause temporary irritation.

- **Serious eye damage/eye irritation**
  
  Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Not a respiratory sensitizer.
This product is not expected to cause skin sensitization.

Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Germ cell mutagenicity

Not available.

Carcinogenicity

This product is not expected to cause reproductive or developmental effects.

Reproductive toxicity

May cause drowsiness and dizziness.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

May be fatal if swallowed and enters airways. Not an aspiration hazard.

Aspiration hazard

Prolonged inhalation may be harmful.

Chronic effects

12. Ecological information

Harmful to aquatic life with long lasting effects. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Ecotoxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated light (CAS 64742-47-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</td>
<td>2.9 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Disposal instructions

Dispose in accordance with all applicable regulations.

Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Hazardous waste code

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Waste from residues / unused products

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Contaminated packaging

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

Not established.

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canadian regulations

Not regulated.
Export Control List (CEPA 1999, Schedule 3)
Not listed.

Greenhouse Gases
Not listed.

Precursor Control Regulations
Not regulated.

International regulations

Stockholm Convention
Not applicable.

Rotterdam Convention
Not applicable.

Kyoto protocol
Not applicable.

Montreal Protocol
Not applicable.

Basel Convention
Not applicable.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
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</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date       19-September-2018
Revision date    19-September-2018
Version #        09
Further information
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

References
ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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Composition / Information on Ingredients: Ingredients
Regulatory Information: United States
GHS: Classification