1. Identification

Product identifier

Product Name: ETHYL ETHER, ANHYDROUS, REAGENT, ACS

Other means of identification

Product Code(s): E1010
UN/ID no: UN1155
Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended use: No information available
Restrictions on use: No information available

Details of the supplier of the safety data sheet

Supplier Address
Spectrum Chemical Mfg. Corp.
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Emergency telephone number

Emergency Telephone: Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

Danger

Hazard statements
Harmful if swallowed
Fatal in contact with skin
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation. May cause drowsiness or dizziness
Extremely flammable liquid and vapor

**Appearance** No information available  **Physical state** Liquid  **Odor** Pungent and sweet

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not get in eyes, on skin, or on clothing
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Immediately call a POISON CENTER or doctor
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
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
In case of fire: Use CO2, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**
Store locked up.
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Other information**
Tends to form explosive peroxides when exposed to air and light, and especially when evaporated to dryness.

**3. Composition/information on ingredients**

**Substance**
Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Ether</td>
<td>60-29-7</td>
<td>99.9999</td>
<td>*</td>
</tr>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>128-37-0</td>
<td>0.0001</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation
Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

Ingestion
Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-protection of the first aider
Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms
May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Large Fire
Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam.

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media
Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical
risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products
Carbon dioxide (CO2).

Explosion data
Sensitivity to mechanical impact none.
Sensitivity to static discharge  
Yes.

Special protective equipment for fire-fighters  
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions  
Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information  
Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment  
Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up  
Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling  
Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions  
Air sensitive. Hygroscopic. It absorbs moisture from the air. Protect from moisture. Sensitive to light. Store in light-resistant containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures below 30°C / 86°F. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits  

### Appropriate engineering controls

**Engineering controls**
- Showers
- Eyewash stations
- Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
- Tight sealing safety goggles.

**Hand protection**
- Wear suitable gloves. Impervious gloves.

**Skin and body protection**

**Respiratory protection**
- No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**
- Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

---

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks * Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Pungent and sweet</td>
<td></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Melting point / freezing point</strong></td>
<td>-116 °C / -176.8 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Boiling point / boiling range</strong></td>
<td>34.6 °C / 94.3 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>-45 °C / -49 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flammability Limit in Air</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Upper flammability or explosive limits</strong></td>
<td>36-48%</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Lower flammability or explosive limits</strong></td>
<td>1.9%</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>58.9 @ 20°C (kPa)</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>2.55</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.7134 - 0.7147</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>Slightly soluble in water</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Soluble in Acetone</td>
<td>None known</td>
</tr>
<tr>
<td></td>
<td>Soluble in Ethanol</td>
<td>None known</td>
</tr>
<tr>
<td></td>
<td>Soluble in Benzene</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>160 - 180 °C / 320 - 356 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Kinematic viscosity</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Dynamic viscosity</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Reactivity
No information available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials

Hazardous decomposition products
None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation
Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact
Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.

Skin contact
Specific test data for the substance or mixture is not available. Fatal in contact with skin. (based on components). Causes skin irritation.

Ingestion
Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Ether 60-29-7</td>
<td>1215 mg/kg (Rat)</td>
<td>20 mL/kg (Rabbit) &gt; 20 mL/kg (Rabbit)</td>
<td>32000 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Butylated Hydroxytoluene 128-37-0</td>
<td>890 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**
Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation**
Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization**
No information available.

**Germ cell mutagenicity**
No information available.

**Carcinogenicity**
No information available.

**Reproductive toxicity**
No information available.

**STOT - single exposure**
May cause drowsiness or dizziness.

**STOT - repeated exposure**
No information available.

**Target organ effects**
Respiratory system, Eyes, Skin, central nervous system.

**Aspiration hazard**
No information available.

**Other adverse effects**
No information available.

**Interactive effects**
No information available.

### 12. Ecological information

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Ether 60-29-7</td>
<td>-</td>
<td>LC50: &gt;2560mg/L (96h, Pimephales promelas) LC50: &gt;10000mg/L (96h, Lepomis macrochirus)</td>
<td>-</td>
<td>EC50: &gt;165mg/L (24h, Daphnia magna)</td>
</tr>
<tr>
<td>Butylated Hydroxytoluene 128-37-0</td>
<td>EC50: &gt;6mg/L (72h, Pseudokirchneriella subcapitata) EC50: &gt;0.42mg/L (72h, Desmodesmus subspicatus)</td>
<td>LC50: &gt;5mg/L (48h, Oryzias latipes)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
No information available. Inherently biodegradable.

**Bioaccumulation**

#### Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Ether 60-29-7</td>
<td>0.82</td>
</tr>
<tr>
<td>Butylated Hydroxytoluene 128-37-0</td>
<td>4.17</td>
</tr>
</tbody>
</table>

**Other adverse effects**
No information available.

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products**
Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**
Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

### 14. Transport information
<table>
<thead>
<tr>
<th>DOT</th>
<th>UN/ID no</th>
<th>UN1155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Diethyl ether</td>
<td></td>
</tr>
<tr>
<td>Hazard class:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Packing group:</td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Special Provisions</td>
<td>T11, TP2</td>
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<tr>
<td>Marine Pollutant</td>
<td>Severe Marine Pollutant</td>
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<tr>
<td>Description:</td>
<td>UN1155, Diethyl ether, 3, I</td>
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<tr>
<td>Emergency Response Guide Number</td>
<td>127</td>
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<table>
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<th>UN1155</th>
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<tr>
<td>Hazard class:</td>
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<td>Packing Group:</td>
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</tr>
<tr>
<td>Description:</td>
<td>UN1155, Diethyl ether, 3, I</td>
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<table>
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<th>MEX</th>
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<tr>
<td>Hazard class:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Packing Group:</td>
<td>I</td>
<td></td>
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<tr>
<td>Description:</td>
<td>UN1155, Diethyl ether, 3, I</td>
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</table>

<table>
<thead>
<tr>
<th>ICAO (air)</th>
<th>UN-No:</th>
<th>UN1155</th>
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<tr>
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<tr>
<td>Hazard class:</td>
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<tr>
<td>Packing Group:</td>
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<table>
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<tr>
<td>Transport hazard class(es):</td>
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<td>Description:</td>
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<tr>
<td>Transport hazard class(es):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Packing group:</td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>EmS-No:</td>
<td>F-E, S-D</td>
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<tr>
<td>Marine pollutant</td>
<td>NP1</td>
<td></td>
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<td>Description:</td>
<td>UN1155, Diethyl ether, 3, I, (-45°C c.c.)</td>
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</table>

<table>
<thead>
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<th>UN number</th>
<th>UN1155</th>
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<tbody>
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<td>Diethyl ether</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Packing group:</td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Classification code</td>
<td>F1</td>
<td></td>
</tr>
<tr>
<td>Description:</td>
<td>UN1155, Diethyl ether, 3, I</td>
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<tr>
<td>Labels</td>
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<table>
<thead>
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<th>UN number</th>
<th>1155</th>
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</thead>
<tbody>
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<td>Diethyl ether</td>
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<tr>
<td>Transport hazard class(es):</td>
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<tr>
<td>Packing group:</td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Classification code</td>
<td>F1</td>
<td></td>
</tr>
<tr>
<td>Tunnel restriction code</td>
<td>(D/E)</td>
<td></td>
</tr>
<tr>
<td>Description:</td>
<td>1155, Diethyl ether, 3, I, (D/E)</td>
<td></td>
</tr>
</tbody>
</table>
15. Regulatory information

International Inventories

TSCA

Complies

DSL/NDSL

Complies

EINECS/ELINCS

Complies

ENCS

This product complies with ENCS:

IECSC

This product complies with China:

KECL

Complies

PICCS

Complies

AICS

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).
US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number  Not applicable

16. Other information

NFPA
Health hazards  2
Flammability  4
Instability  0
Physical and chemical properties  -
HMIS
Health hazards  2
Flammability  4
Physical hazards  0
Personal protection  X

Key or legend to abbreviations and acronyms used in the safety data sheet
Legend  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA  TWA (time-weighted average)  STEL  STEL (Short Term Exposure Limit)
Ceiling  Maximum limit value

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEG(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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End of Safety Data Sheet