1. Identification

Product identifier: Hylotyte Red 100

Other means of identification:
- SDS number: 37
- Non-Setting and Non-Hardening Gasketing Compound.

Recommended use: Use in accordance with supplier's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer: Hylomar Ltd.
Address: Hylo House, Cale Lane, New Springs, Wigan, Greater Manchester, UK, WN2 1JT
Telephone number: +44(0)1942 617000
E-mail address: info@hylomar.co.uk
Contact person: Technical Department
Emergency telephone: 1.866.519.4752 (USA, Canada, Mexico)
1-760-476-3962
Access code: 333544

2. Hazard(s) identification

Physical hazards: Flammable liquids Category 2
Health hazards: Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, single exposure Category 3 narcotic effects

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger
Hazard statement: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statement:

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - 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. Avoid breathing vapors. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Response: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.


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

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: None.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>40 - 50</td>
</tr>
<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica</td>
<td>68611-44-9</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Silica, amorphous, fumed</td>
<td>112945-52-5</td>
<td>3 - 5</td>
</tr>
</tbody>
</table>

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

**Inhalation**
Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention if any discomfort continues.

**Skin contact**
Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists get medical attention.

**Eye contact**
Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses. Get medical attention if any discomfort continues.

**Ingestion**
Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention if any discomfort continues.

**Most important symptoms/effects, acute and delayed**
Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Vapors may cause drowsiness and dizziness.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

**General information**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

**Suitable extinguishing media**
Water spray, foam, dry powder or carbon dioxide.

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

**Specific hazards arising from the chemical**
By heating and fire, harmful vapors/gases may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions**
Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

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

**General fire hazards**
The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep upwind. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep out of low areas. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. Avoid inhalation of vapors/mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this SDS.

**Methods and materials for containment and cleaning up**
Eliminate all ignition sources. Take precautionary measures against static discharge. Use only non-sparking tools. Ventilate the area. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Following product recovery, flush area with water.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking hand tools and explosion-proof electrical equipment. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors/mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, spark, open flames and other sources of ignition. Keep container tightly closed in a cool, well-ventilated place. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep in an area equipped with sprinklers. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>PEL</td>
<td>2400 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9)</td>
<td>TWA</td>
<td>0.8 mg/m3</td>
</tr>
<tr>
<td>Silica, amorphous, fumed (CAS 112945-52-5)</td>
<td>TWA</td>
<td>20 mppcf</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.8 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 mppcf</td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>250 ppm</td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>TWA</td>
<td>590 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td>Silica, amorphous, fumed (CAS 112945-52-5)</td>
<td>TWA</td>
<td>6 mg/m3</td>
</tr>
</tbody>
</table>

Biological limit values

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>25 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

Exposure guidelines

Follow standard monitoring procedures.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection

If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

Skin protection

Hand protection

Wear protective gloves. Butyl rubber gloves are recommended. Breakthrough time >120 min. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
Skin protection
Other
Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection
In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards
Not applicable.

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.

9. Physical and chemical properties

Appearance
Physical state
Liquid.

Form
Thixotropic gel.

Color
Red.

Odor
Acetone.

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
Not available.

Initial boiling point and boiling range
Not available.

Flash point
1.4 °F (-17.0 °C)

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Flammability limit - lower (%)
Not available.

Flammability limit - upper (%)
Not available.

Vapor pressure
Not available.

Vapor density
Not available.

Relative density
0.95  (20 °C)

Solubility(ies)
Solubility (water)
Insoluble in water.

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

Other information
Explosive properties
Not explosive.

Oxidizing properties
Not oxidizing.

VOC
40 %

10. Stability and reactivity

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

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong oxidizing agents.
11. Toxicological information

Information on likely routes of exposure

**Inhalation**
- Vapors may cause drowsiness and dizziness. In high concentrations, vapors may be irritating to the respiratory system.

**Skin contact**
- Prolonged or repeated skin contact may cause drying, cracking, or irritation.

**Eye contact**
- Causes serious eye irritation.

**Ingestion**
- Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

- Irritation of eyes and mucous membranes. Skin irritation. Defatting of the skin. Vapors may cause drowsiness and dizziness.

Information on toxicological effects

**Acute toxicity**
- Not expected to be acutely toxic.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
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<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 15700 mg/kg, 24 Hours</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor</td>
<td>Rat</td>
<td>76 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>5800 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
- May cause skin irritation.

**Serious eye damage/eye irritation**
- Causes serious eye irritation.

Respiratory or skin sensitization

- Based on available data, the classification criteria are not met.

**Respiratory sensitization**
- Based on available data, the classification criteria are not met.

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

**Germ cell mutagenicity**
- Based on available data, the classification criteria are not met.

**Carcinogenicity**
- Based on available data, the classification criteria are not met.

- Silica, amorphous, fumed (CAS 112945-52-5) Not classifiable as to carcinogenicity to humans.

- IARC Monographs. Overall Evaluation of Carcinogenicity
  - Not listed.

- NTP Report on Carcinogens
  - Not listed.

- Not regulated.

Reproductive toxicity

- Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure**
- May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**
- Based on available data, the classification criteria are not met.

Aspiration hazard
- Not an aspiration hazard.

Chronic effects
- Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Further information
- No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity
- The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Components Test Results

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>LC50</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td>NOEC</td>
</tr>
<tr>
<td>Crustacea</td>
<td></td>
</tr>
<tr>
<td>Daphnia pulex</td>
<td>8800 mg/l, 48 Hours</td>
</tr>
<tr>
<td>Pimephales promelas</td>
<td>7163 mg/l, 96 Hours</td>
</tr>
<tr>
<td>Daphnia magna</td>
<td>&gt; 79 mg/l, 21 days</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data available.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Partition coefficient n-octanol / water (log Kow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
</tr>
</tbody>
</table>

Mobility in soil
The product contains organic solvents which will evaporate easily from all surfaces.

Mobility in general
The product is insoluble in water.

Other adverse effects
The product contains a substance which has a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions
Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code
D001: Waste Flammable material with a flash point <140 °F
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
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).

Contaminated packaging
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.

14. Transport information

**DOT**

<table>
<thead>
<tr>
<th>UN number</th>
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<tr>
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<tr>
<td>Transport hazard class(es)</td>
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<tr>
<td>Class</td>
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<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Label(s)</td>
<td>3</td>
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<tr>
<td>Packing group</td>
<td>II</td>
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<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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<tr>
<td>Special provisions</td>
<td>149, B52, IB2, T4, TP1, TP8</td>
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<tr>
<td>Packaging exceptions</td>
<td>150</td>
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<td>Packaging non bulk</td>
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<tr>
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**IATA**

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<td>Subsidiary risk</td>
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<td>Label(s)</td>
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<tr>
<td>Packing group</td>
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</tr>
<tr>
<td>Environmental hazards</td>
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<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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**IMDG**

<table>
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<tbody>
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</table>
Transport hazard class(es)

- Class 3
- Subsidiary risk -
- Label(s) 3

Environmental hazards

- Marine pollutant No.
- EmS F-E, S-D

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Acetone (CAS 67-64-1) Listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

- Classified hazard categories
  - Flammable (gases, aerosols, liquids, or solids)
  - Serious eye damage or eye irritation
  - Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number
Acetone (CAS 67-64-1) 6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
Acetone (CAS 67-64-1) Low priority

US state regulations

US. Massachusetts RTK - Substance List
Acetone (CAS 67-64-1)
Silica, amorphous, fumed (CAS 112945-52-5)
US. New Jersey Worker and Community Right-to-Know Act  
Acetone (CAS 67-64-1)  
US. Pennsylvania Worker and Community Right-to-Know Law  
Acetone (CAS 67-64-1)  
Silica, amorphous, fumed (CAS 112945-52-5)  
US. Rhode Island RTK  
Acetone (CAS 67-64-1)  
California Proposition 65  
California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.  
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))  
Acetone (CAS 67-64-1)  

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>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</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>Yes</td>
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<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
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<td>European List of Notified Chemical Substances (ELINCS)</td>
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<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<td>New Zealand Inventory</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies 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, including date of preparation or last revision  

<table>
<thead>
<tr>
<th>Issue date</th>
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<tbody>
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<td>Revision date</td>
<td>24-January-2018</td>
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<td>Version #</td>
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<td>NFPA ratings</td>
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</table>

<table>
<thead>
<tr>
<th>List of abbreviations</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PEL: Permissible Exposure Limit.</td>
<td></td>
</tr>
<tr>
<td>TWA: Time Weighted Average.</td>
<td></td>
</tr>
<tr>
<td>STEL: Short term exposure limit.</td>
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</tr>
<tr>
<td>LD50: Lethal Dose, 50%.</td>
<td></td>
</tr>
<tr>
<td>LC50: Lethal Concentration, 50%.</td>
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</tr>
<tr>
<td>NOEC: No observed effect concentration.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>HSDB® - Hazardous Substances Data Bank</td>
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<tr>
<td>Registry of Toxic Effects of Chemical Substances (RTECS)</td>
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<tr>
<td>ESIS (European chemical Substances Information System)</td>
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<thead>
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<th>Disclaimer</th>
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<tbody>
<tr>
<td>The information in the sheet was written based on the best knowledge and experience currently available.</td>
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This SDS contains revisions in the following section(s): 1, 3, 4, 5, 6, 7, 8, 11, 12, 13, 15, 16