1. Identification

Product identifier: Advanced Grout Sealer
Other means of identification: None.
Recommended use: Sealer.
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name: LATICRETE International
Address: 1 Laticrete Park, N
Bethany, CT 06524
Telephone: (203)-393-0010
Contact person: Steve Fine
Website: www.laticrete.com
Emergency phone number: Call CHEMTREC day or night
USA/Canada - 1.800.424.9300
Mexico - 1.800.681.9531
Outside USA/Canada 1.703.527.3887

2. Hazard(s) identification

Physical hazards: Flammable aerosols Category 1
Gases under pressure Liquefied gas
Health hazards: Skin corrosion/irritation Category 2
Specific target organ toxicity, single exposure Category 3 narcotic effects
Aspiration hazard Category 1
Environmental hazards: Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, long-term hazard Category 2

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger
Hazard statement: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response: If skin irritation occurs: 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. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Collect spillage. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. If on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Store locked up.
Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
May displace oxygen and cause rapid suffocation.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>60 - 80</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Partially Fluorinated Acrylic Copolymer</td>
<td>Proprietary</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>123-86-4</td>
<td>&lt; 2</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.

4. First-aid measures

Inhalation
Move into fresh air and keep at rest. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

Skin contact
Flush thoroughly with water for at least 15 minutes. Wash skin with soap and water. Get medical attention if irritation develops and persists.
Frostbite: Do not remove clothes, but flush with copious amounts of lukewarm water. Call an ambulance and continue to flush during transportation to hospital.

Eye contact
Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

Ingestion
Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Skin irritation. Irritation of nose and throat. Irritating to mucous membranes. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.

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

Fire fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk.

General fire hazards
Extremely flammable aerosol - contents under pressure. Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Gas may travel considerable distance to a source of ignition and flash back. May form explosive mixtures with air.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Do not breathe mist or vapor. Avoid contact with skin and eyes. Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Use personal protection recommended in Section 8 of the SDS.

**Methods and materials for containment and cleaning up**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Dike the spilled material, where this is possible. Following product recovery, flush area with water. Cover with plastic sheet to prevent spreading. Absorb spillage with non-combustible, absorbent material.

Small Spills: Clean surface thoroughly to remove residual contamination.

**Environmental precautions**

Never return spills in original containers for re-use.

7. Handling and storage

**Precautions for safe handling**

Wash thoroughly after handling. Avoid prolonged exposure. Avoid contact with skin, eyes and clothing. Do not breathe mist or vapor. The product is extremely flammable. May form explosive mixtures with air. Ground container and transfer equipment to eliminate static electric sparks. Do not handle or store near an open flame, heat or other sources of ignition. Contents under pressure. Do not puncture. Do not expose to electric current or heat. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only in well-ventilated areas. Handle and open container with care.

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


8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)</td>
<td>PEL</td>
<td>400 mg/m3</td>
</tr>
<tr>
<td>n-Butyl acetate (CAS 123-86-4)</td>
<td>PEL</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Propane (CAS 74-98-6)</td>
<td>PEL</td>
<td>710 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1800 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
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</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>n-Butyl acetate (CAS 123-86-4)</td>
<td>STEL</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>150 ppm</td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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<tbody>
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<td>TWA</td>
<td>1900 mg/m3</td>
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<tr>
<td></td>
<td></td>
<td>800 ppm</td>
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</table>
**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
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<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)</td>
<td>TWA</td>
<td>400 mg/m³</td>
</tr>
<tr>
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<td>STEL</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>950 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>150 ppm</td>
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<td>Propane (CAS 74-98-6)</td>
<td>TWA</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

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

**Exposure guidelines**
Follow standard monitoring procedures.

**Appropriate engineering controls**
Explosion proof exhaust ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment. Provide easy access to water supply or an emergency shower.

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

**Eye/face protection**
Wear goggles/face shield.

**Skin protection**

**Hand protection**
Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

**Other**
Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. Protective shoes or boots. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Wear chemical protective equipment that is specifically recommended by the Personal Protective Equipment manufacturer.

**Respiratory protection**
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. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Remove and isolate contaminated clothing and shoes.

**9. Physical and chemical properties**

**Appearance**
Compressed liquefied gas.

**Physical state**
Liquid.

**Form**
Aerosol liquid.

**Color**
Clear.

**Odor**
Solvent.

**Odor threshold**
Not available.

**pH**
No data available.

**Melting point/freezing point**
Not applicable.

**Initial boiling point and boiling range**
Not available.

**Flash point**
< -0.4 °F (< -18.0 °C)

**Evaporation rate**
Not applicable.

**Flammability (solid, gas)**
Flammable gas.
Upper/lower flammability or explosive limits

- Flammability limit - lower (%) 1.8 % v/v
- Flammability limit - upper (%) 9.5 % v/v
- Explosive limit - lower (%) Not available.
- Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.817

Relative density 0.817

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
- VOC (Weight %) 1.5 g Ozone/g product

10. Stability and reactivity

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

Chemical stability Stable under normal temperature conditions. Heat may cause the containers to explode.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Heat, sparks, flames, elevated temperatures. Pressurized container: Must not be exposed for temperatures above 50°C.

Incompatible materials Strong oxidizing agents. Strong acids.

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure
- Inhalation Vapors/aerosol spray may irritate the respiratory system.
- Skin contact Causes skin irritation.
- Eye contact May cause eye irritation on direct contact.
- Ingestion Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics Skin irritation. Irritation of nose and throat. Irritating to mucous membranes.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
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<tr>
<td>Acute Inhalation LC50 Rat</td>
<td>658 mg/l, 4 Hours</td>
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<tr>
<td>Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)</td>
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<tr>
<td>Acute Dermal LD50 Rabbit</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50 Rat</td>
<td>&gt; 4.96 mg/l, 4 Hours</td>
</tr>
</tbody>
</table>
Components | Species | Test Results
--- | --- | ---
Oral LD50 | Rat | > 5000 mg/kg
Propane (CAS 74-98-6)
Acute Inhalation LC50 | Rat | 1355 mg/l
Skin corrosion/irritation | Causes skin irritation.
Serious eye damage/eye irritation | May cause eye irritation.
Respiratory or skin sensitization
Respiratory sensitization | Not classified.
Skin sensitization | Not a skin sensitizer.
Germ cell mutagenicity | Not classified.
Carcinogenicity | Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity | Not classified.
Specific target organ toxicity - single exposure | May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure | Not classified.
Aspiration hazard | May be fatal if swallowed and enters airways.
Further information
Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

12. Ecological information

Ecotoxicity | Toxic to aquatic life with long lasting effects.
Components | Species | Test Results
--- | --- | ---
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)
Aquatic Algae IC50 | Algae | <= 10 mg/l, 72 hours
Crustacea EC50 | Daphnia | <= 10 mg/l, 48 hours
Fish LC50 | Fish | <= 10 mg/l, 96 hours
Persistence and degradability | No data is available on the degradability of this product.
Bioaccumulative potential | No data available for this product.
Partition coefficient n-octanol / water (log Kow)
Butane (CAS 106-97-8) | 2.89
Propane (CAS 74-98-6) | 2.36
n-Butyl acetate (CAS 123-86-4) | 1.78
Mobility in soil | No data available.
Mobility in general | The product is insoluble in water.
Other adverse effects | No data available.

13. Disposal considerations
Disposal instructions
Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Hazardous waste code
Waste codes should be assigned by the user based on the application for which the product was used.
Waste from residues / unused products
Dispose of in accordance with local regulations.
Contaminated packaging

Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not puncture or incinerate even when empty.

14. Transport information

DOT

<table>
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<tr>
<th>Feature</th>
<th>Value</th>
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<td>UN number</td>
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<td>Label(s)</td>
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<td>Packing group</td>
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<td>Environmental hazards</td>
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<tr>
<td>Marine pollutant</td>
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<tr>
<td>Special precautions for user</td>
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<td>Packaging exceptions</td>
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IATA

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IMDG

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<td>Environmental hazards</td>
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<td></td>
</tr>
<tr>
<td>the IBC Code</td>
<td></td>
</tr>
</tbody>
</table>

General information

IATA classification is not relevant as the material is not transported by air.

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.

This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:

Partially Fluorinated Acrylic Copolymer
PMN Number: P-08-0643

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)

- Butane (CAS 106-97-8) LISTED
- n-Butyl acetate (CAS 123-86-4) LISTED
- Propane (CAS 74-98-6) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - Yes
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

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)
- Butane (CAS 106-97-8)
- Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List
- Butane (CAS 106-97-8)
- Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)
- n-Butyl acetate (CAS 123-86-4)
- Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act
- Butane (CAS 106-97-8)
- Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)
- n-Butyl acetate (CAS 123-86-4)
- Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law
- Butane (CAS 106-97-8)
- Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)
- n-Butyl acetate (CAS 123-86-4)
- Propane (CAS 74-98-6)

US. Rhode Island RTK
- Butane (CAS 106-97-8)
- n-Butyl acetate (CAS 123-86-4)
- Propane (CAS 74-98-6)

US. California Proposition 65
Not Listed.

International Inventories

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<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
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<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
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<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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<td>Non-Domestic Substances List (NDSL)</td>
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<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
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<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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Advanced Grout Sealer
SDS US
922682     Version #: 01     Revision date: -     Issue date: 24-February-2015
<table>
<thead>
<tr>
<th>Country(s) or region</th>
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<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</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

**Issue date**

24-February-2015

**Revision date**

-

**Version #**

01

**NFPA ratings**

- 2
- 4
- 1

**References**

HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

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