SECTION 1. Product and company identification
Chemical type : Mixture
Trade name : JL-G Lubricant
Company identification : Superbolt, Inc.
1000 Gregg Street
Carnegie, PA 15106
T (412) 279-1149
www.nord-lock.com/
Emergency number : (412) 279-1149 (Monday- Friday from 7:30 am – 4:30 pm; North American Eastern Time Zone)

SECTION: 2. Hazards identification

2.1. Emergency Overview
Physical state : Solid
Appearance : Paste
Colour : dark grey
odour : Mild petroleum odor
HAZARD : May cause cancer

Quartz(14808-60-7)
IARC group 1 - Carcinogenic to Humans
National Toxicity Program (NTP) Status 2 - Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list

2.2. OSHA Regulatory Status
OSHA regulation Status : This material is classified as hazardous under OSHA regulation

2.3. Potential health effects
Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact : May cause skin irritation.
Symptoms/injuries after eye contact : Symptoms include : Redness. Blurred vision.
Symptoms/injuries after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

2.4. Potential environmental effects
No additional information available

SECTION: 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>&lt; 50</td>
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<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>&lt; 60</td>
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<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
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</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>&lt; 2</td>
</tr>
</tbody>
</table>

SECTION: 4. First aid measures

4.1. First aid procedures
First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation persists, seek medical attention.
First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain emergency medical attention.

4.2. Note to physicians
Treat symptomatically.
SECTION: 5. Firefighting measures

5.1. Flammable properties
Fire hazard: Decomposition products may be a hazard to health.
Explosion hazard: Exposure to fire may cause containers to rupture/explode.
Reactivity: Stable under normal conditions of use.

5.2. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.3. Protection for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION: 6. Accidental release measures

6.1. Personal precautions
6.1.1. For non-emergency personnel
Protective equipment: Wear suitable protective clothing, gloves, and eye/face protection.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye/face protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods for containment
No additional information available

6.4. Methods for clean up
Methods for cleaning up: Clean spills promptly. Wear proper protective equipment. Dispose in a safe manner in accordance with local/national regulations.

6.5. Other information
See Heading 8. Exposure controls and personal protection.

6.6. Spill or leak statements by type of chemical
No additional information available

SECTION: 7. Handling and storage

7.1. Handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Storage
Storage condition(s): Keep only in the original container in a cool, well ventilated place away from: open sparks and flame. Keep container closed when not in use.
Incompatible products: Strong oxidizing agents.
Incompatible materials: Sources of ignition. Direct sunlight.

SECTION: 8. Exposure controls/personal protection

8.1. Exposure guidelines

| Graphite (7782-42-5) | ACGIH ACGIH TWA (mg/m³) | 2 mg/m³ (respirable fraction) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | ACGIH ACGIH TW (mg/m³) | 5 mg/m³ |
| ACGIH ACGIH STEL (mg/m³) | 10 mg/m³ |
| OSHA OSHA PEL (TWA) (mg/m3) | 5 mg/m³ |
**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

<table>
<thead>
<tr>
<th>Province</th>
<th>Quebec (VECD)</th>
<th>Quebec (VEMP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VECD (mg/m³)</td>
<td>10 mg/m³ (Mineral oil - dust)</td>
<td>5 mg/m³ (Mineral oil - dust)</td>
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</tbody>
</table>

**Quartz (14808-60-7)**

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Quebec (VECD)</th>
<th>Quebec (VEMP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td>IDLH</td>
<td>US IDLH (mg/m3)</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m3)</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

**8.2. Engineering controls**

Appropriate engineering controls: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**8.3. Personal protective equipment (PPE)**

**Personal protective equipment:** Protective goggles. Gloves.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

**Respiratory protection:** An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

**SECTION: 9. Physical and chemical properties**

- **Physical state:** Solid
- **Appearance:** Paste.
- **Colour:** Dark grey.
- **Odour:** Mild petroleum odor.
- **Odour threshold:** No data available
- **pH:** Not applicable
- **Melting point:** No data available
- **Freezing point:** No data available
- **Boiling point:** > 315 °C
- **Flash point:** 190 °C
- **Relative evaporation rate (butylacetate=1):** No data available
- **Flammability (solid, gas):** No data available
- **Explosive limits:** No data available
- **Vapour pressure:** < 0.1 mm Hg
- **Relative vapour density at 20 °C:** > 2 (Air = 1)
- **Relative density:** 2.2 - 2.35
- **Solubility:** Water: Negligible in water
- **Log Pow:** No data available
- **Self ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Viscosity:** No data available
- **Explosive properties:** Not explosive.
- **Oxidising properties:** Not oxidizing.

**SECTION: 10. Stability and reactivity**

**10.1. Chemical stability**

Stable under normal conditions of use.

**10.2. Conditions to avoid**

Heat, open flame, sparks, hot surfaces, ignition sources, elevated temperature.

**10.3. Incompatible materials**

Strong oxidizing agents.

**10.4. Hazardous decomposition products**

10.5. Possibility of hazardous reactions
Product will not undergo polymerization.

SECTION: 11. Toxicological information

Information on toxicological effects

Acute toxicity : Not classified
Based on available data, the classification criteria are not met

| Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0) |
|--------------------------|-----------------|
| LD50 oral rat            | > 5000 mg/kg    |
| LD50 dermal rabbit       | > 5000 mg/kg    |
| LC50 inhalation rat (mg/l)| > 4.7 mg/l (Exposure time: 4 h) |

<table>
<thead>
<tr>
<th>Quartz (14808-60-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : May cause cancer

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION: 12. Ecological information

12.1 Ecotoxicity

| Petroleum distillates, hydrotreated heavy paraffinic(64742-54-7) |
|--------------------------|--------------------------|
| LC50 fish                | > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia             | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Distillates, petroleum, solvent-dewaxed heavy paraffinic(64742-65-0) |
|--------------------------|--------------------------|
| LC50 fish                | > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia             | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

12.2. Persistence and degradability

- **JL-G Lubricant()**
  - Persistence and degradability : Not established.

12.3. Bioaccumulation/Accumulation

- **JL-G Lubricant()**
  - Bioaccumulative potential : Not established.

12.4. Mobility in environmental media

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION: 13. Disposal considerations

13.1. Waste treatment methods

- **Waste disposal recommendations** : Dispose in a safe manner in accordance with local/national regulations.
- **Ecology - waste materials** : Avoid release to the environment.
SECTION: 14. Transport information

14.1. Basic shipping description
No additional information available

14.2 Additional information
Other information : No supplementary information available.

Overland transport
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION: 15. Regulatory information

15.1. US Federal regulations

Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Graphite (7782-42-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)
Listed on the Canadian DSL (Domestic Sustances List) inventory.

Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)
Listed on the Canadian DSL (Domestic Sustances List) inventory.

Graphite (7782-42-5)
Listed on the Canadian DSL (Domestic Sustances List) inventory.

Quartz (14808-60-7)
Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

EU-Regulations

Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Graphite (7782-42-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Quartz (14808-60-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified
### 15.2.2. National regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Listed in:</th>
</tr>
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<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)</td>
<td>- the AICS (the Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)</td>
<td>- the AICS (the Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Graphite (7782-42-5)</td>
<td>- the AICS (the Australian Inventory of Chemical Substances)</td>
</tr>
</tbody>
</table>

### 15.3. US State regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>State or local regulations</th>
<th>Permissible Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)</td>
<td>U.S. - Texas - Effects Screening Levels - Long Term</td>
<td></td>
</tr>
<tr>
<td>Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)</td>
<td>U.S. - Texas - Effects Screening Levels - Long Term</td>
<td></td>
</tr>
<tr>
<td>Graphite (7782-42-5)</td>
<td>U.S. - Hawaii - Occupational Exposure Limits - TWAs</td>
<td></td>
</tr>
</tbody>
</table>

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**Graphite (7782-42-5)**

- **Regulations**
  - U.S. - Hawaii - Occupational Exposure Limits - TWAs
  - U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts
  - U.S. - Idaho - Occupational Exposure Limits - TWAs
  - U.S. - Massachusetts - Right To Know List
  - U.S. - Michigan - Occupational Exposure Limits - TWAs
  - U.S. - Minnesota - Hazardous Substance List
  - U.S. - Minnesota - Permissible Exposure Limits - TWAs
  - U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
  - U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
  - U.S. - New Jersey - Right to Know Hazardous Substance List
  - U.S. - New York - Occupational Exposure Limits - Mineral Dusts
  - U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
  - U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
  - U.S. - Oregon - Permissible Exposure Limits - TWAs
  - U.S. - Pennsylvania - R TK (Right to Know) List
  - U.S. - Tennessee - Occupational Exposure Limits - TWAs
  - U.S. - Texas - Effects Screening Levels - Long Term
  - U.S. - Texas - Effects Screening Levels - Short Term
  - U.S. - Vermont - Permissible Exposure Limits - TWAs
  - U.S. - Washington - Permissible Exposure Limits - STELs
  - U.S. - Washington - Permissible Exposure Limits - TWAs
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

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**Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)**

- **Regulations**
  - U.S. - Texas - Effects Screening Levels - Long Term
  - U.S. - Texas - Effects Screening Levels - Short Term

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**Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)**

- **Regulations**
  - U.S. - Texas - Effects Screening Levels - Long Term
  - U.S. - Texas - Effects Screening Levels - Short Term

---

**Graphite (7782-42-5)**

- **Regulations**
  - U.S. - Hawaii - Occupational Exposure Limits - TWAs
  - U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts
  - U.S. - Idaho - Occupational Exposure Limits - TWAs
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  - U.S. - Michigan - Occupational Exposure Limits - TWAs
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  - U.S. - Minnesota - Permissible Exposure Limits - TWAs
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  - U.S. - New York - Occupational Exposure Limits - Mineral Dusts
  - U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
  - U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
  - U.S. - Oregon - Permissible Exposure Limits - TWAs
  - U.S. - Pennsylvania - R TK (Right to Know) List
  - U.S. - Tennessee - Occupational Exposure Limits - TWAs
  - U.S. - Texas - Effects Screening Levels - Long Term
  - U.S. - Texas - Effects Screening Levels - Short Term
  - U.S. - Vermont - Permissible Exposure Limits - TWAs
  - U.S. - Washington - Permissible Exposure Limits - STELs
  - U.S. - Washington - Permissible Exposure Limits - TWAs
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
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  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

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**Graphite (7782-42-5)**

- **Regulations**
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  - U.S. - Minnesota - Permissible Exposure Limits - TWAs
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  - U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
  - U.S. - New Jersey - Right to Know Hazardous Substance List
  - U.S. - New York - Occupational Exposure Limits - Mineral Dusts
  - U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
  - U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
  - U.S. - Oregon - Permissible Exposure Limits - TWAs
  - U.S. - Pennsylvania - R TK (Right to Know) List
  - U.S. - Tennessee - Occupational Exposure Limits - TWAs
  - U.S. - Texas - Effects Screening Levels - Long Term
  - U.S. - Texas - Effects Screening Levels - Short Term
  - U.S. - Vermont - Permissible Exposure Limits - TWAs
  - U.S. - Washington - Permissible Exposure Limits - STELs
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**Graphite (7782-42-5)**

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  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
  - U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
JL-G Lubricant
Safety Data Sheet

**Quartz (14808-60-7)**

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Hawaii - Occupational Exposure Limits - TWAs</td>
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</tr>
<tr>
<td>U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations</td>
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<tr>
<td>U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)</td>
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<tr>
<td>U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts</td>
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</tr>
<tr>
<td>U.S. - Illinois - Toxic Air Contaminant Carcinogens</td>
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<tr>
<td>U.S. - Maine - Chemicals of High Concern</td>
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<td>U.S. - Massachusetts - Right To Know List</td>
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<tr>
<td>U.S. - Michigan - Occupational Exposure Limits - TWAs</td>
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</tr>
<tr>
<td>U.S. - Minnesota - Chemicals of High Concern</td>
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</tr>
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<td>U.S. - Minnesota - Hazardous Substance List</td>
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<td>U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual</td>
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<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
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<tr>
<td>U.S. - New Jersey - Special Health Hazards Substances List</td>
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<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
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<tr>
<td>U.S. - Rhode Island - Hazardous Substance List</td>
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<td>U.S. - Washington - Permissible Exposure Limits - STELs</td>
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<td>U.S. - Washington - Permissible Exposure Limits - TWAs</td>
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**SECTION: 16. Other information**

Abbreviations and acronyms:
- ATE - acute toxicity estimate
- BCF - bioconcentration factor
- CAS - Chemical Abstracts Service
- CLP - Classification, Labelling and Packaging
- CSR - Chemical Safety Report
- GHS - Globally Harmonised System
- MSDS - Material Safety Data Sheet
- Overland transport (ADR)
- PBT - Persistent, Bioaccumulative and Toxic substance
- PEL - Permissible Exposure Level
- REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
- Relat - Relative
- SDS - Safety Data Sheet
- STEL - Short-Term Exposure Limit
- TLV - Threshold Limit Value
- TWL - Time Weighted Average
- UVOC - Substances of Unknown or Variable composition, Complex reaction products or Biological materials
- vPvB - Very Persistent and Very Bioaccumulative

Other information:
- None.

**NPFA Rating**
- NPFA health hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NPFA fire hazard: 1 - Must be preheated before ignition can occur.
- NPFA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**
- Health: 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability: 1 Slight Hazard
- Personal Protection: B

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*