Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name: Black Ice Aerosol

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s): Lubricant

1.3 Details of the supplier of the safety data sheet

Manufacturer

Southwestern Graphite
Division of Asbury Carbons
2504 Highway 12
DeQuincy, LA 70633
(337) 708-5905

Cannings Moore Graphite
Division of Asbury Carbons
1648 N. Green Avenue
Detroit, MI 48209
(313) 841-8415

1.4 Emergency telephone number

Manufacturer

US: 1-800-255-3924; International: +01-813-248-0585; China: 400-120-0751; Brazil: 0-800-591-6042; India: 000-800-100-4086; Mexico: 01-800-099-0731
ChemTel contract number: MIS0001391 (collect calls accepted)

Section 2: Hazards Identification

EU/EEC

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP

Flammable Aerosols 1 - H222
Skin Irritation 2 - H315
Hazardous to the aquatic environment Chronic 2 - H411

DSD/DPD

Extremely Flammable (F+)
Harmful (Xn)
Dangerous to the Environment (N)
R12, R51, R53

2.2 Label Elements

CLP

DANGER

Hazard statements

H222 - Extremely flammable aerosol
H315 - Causes skin irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

**Prevention**
P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P260 - Do not breathe gas/mist/vapours/spray.
P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response**
P391 - Collect spillage.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P311 - Avoid contact with eyes, skin, and clothing.
P312 - Keep out of reach of children.
P313 - Avoid prolonged or repeated contact with skin and clothing.
P321 - Specific treatment, see supplemental first aid information.
P362 - Take off contaminated clothing and wash before reuse.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.

**Storage/Disposal**
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**DSD/DPD**

**Risk phrases**
R12 - Extremely flammable.
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51 - Toxic to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.

**Safety phrases**
S9 - Keep container in a well ventilated place
S16 - Keep away from sources of ignition - No Smoking.
S57 - Use appropriate containment to avoid environmental contamination.

### 2.3 Other Hazards

**CLP**
According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

**DSD/DPD**
According to European Directive 1999/45/EC this material is considered dangerous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

**OSHA HCS 2012**
- Flammable Aerosols 1
- Skin Irritation 2
- Eye Irritation 2

### 2.2 Label elements

**OSHA HCS 2012**

DANGER

**Hazard statements**
- Extremely flammable aerosol
- Causes skin irritation
- Causes serious eye irritation

**Precautionary statements**
Prevention  
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source. 
Pressurized container: Do not pierce or burn, even after use. 
Do not breathe gas/mist/vapours/spray. 
Wash thoroughly after handling. 
Wear protective gloves/protective clothing/eye protection/face protection.  

Response  
If on skin: Wash with plenty of water. 
Specific treatment, see supplemental first aid information. 
Take off contaminated clothing and wash before reuse. 
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. 
Get medical advice/attention if you feel unwell.  

Storage/Disposal  
Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF. 
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.  

2.3 Other hazards  
OSHA HCS 2012  

Canada  
According to: WHMIS  

2.1 Classification of the substance or mixture  
WHMIS  
Flammable Aerosols - B5 
Other Toxic Effects - D2A  

2.2 Label elements  
WHMIS  
Flammable Aerosols - B5 
Other Toxic Effects - D2A  

2.3 Other hazards  
WHMIS  
In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).  

Section 3 - Composition/Information on Ingredients  

3.1 Substances  
Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.  

3.2 Mixtures  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identiﬁers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classiﬁcations According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
</table>

Preparation Date: 15 May 2015  
Revision Date: 06/21/17  
Format: EU CLP/REACH Language: English (US)  
WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012
## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

**Inhalation**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

**Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention immediately if symptoms occur.

**Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical attention/advice.

**Ingestion**
- If swallowed, DO NOT induce vomiting. Get medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

**Unsuitable Extinguishing**
- No data available
Media

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents.
- Vapors may travel to source of ignition and flash back.
- Vapors may form explosive mixtures with air.
- Overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Hazardous Combustion Products

- On burning, may release carbon dioxide and carbon monoxide.

5.3 Advice for firefighters

- Structural firefighters’ protective clothing provides limited protection in fire situations. ONLY; it is not effective in spill situations where direct contact with the substance is possible.
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up

- Clean up area with absorbent material and place in closed containers for disposal.
- Wash floor with soap and water.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Keep away from heat and ignition sources – No Smoking. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Do not puncture or incinerate (burn) cans. Do not stick a pin, nail or any other sharp object into opening on top of can. Use only with adequate ventilation. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe (dust, vapor or spray mist) Avoid contact with eyes, skin and clothing. Do not use near ignition sources such as sparks or open flames. Do not cut, drill or weld on containers. Even empty containers may contain residue that will support a flame or explode when exposed to a spark, flame or other source of ignition. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place. Keep away from heat, sparks, and flame. Do
not store at temperatures >120° F

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Result</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quartz (14808-60-7)</strong></td>
<td>TWAs 0.025 mg/m³ TWA (respirable fraction) 0.05 mg/m³ TWA (respirable dust) Not established</td>
</tr>
<tr>
<td><strong>Isobutane (75-28-5)</strong></td>
<td>STELs 1000 ppm STEL Not established Not established</td>
</tr>
<tr>
<td><strong>Propane (74-98-6)</strong></td>
<td>TWAs 1000 ppm TWA; 1800 mg/m³ TWA</td>
</tr>
<tr>
<td><strong>Heptane (142-82-5)</strong></td>
<td>TWAs 400 ppm TWA; 350 mg/m³ TWA 500 ppm TWA; 2000 mg/m³ TWA</td>
</tr>
<tr>
<td><strong>Graphite (7782-42-5)</strong></td>
<td>TWAs 2 mg/m³ TWA (all forms except graphite fibers, respirable fraction) 2.5 mg/m³ TWA (natural, respirable dust) 15 mg/m³ TWA (synthetic, total dust); 5 mg/m³ TWA (synthetic, fraction)</td>
</tr>
</tbody>
</table>

Exposure Limits Supplemental

**OSHA**

- **Graphite (7782-42-5):** Mineral Dusts: (15 mppcf TWA (natural))
- **Quartz (14808-60-7):** Mineral Dusts: (30)/(%SiO2 + 2) mg/m³ TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m³ TWA, respirable fraction)

8.2 Exposure controls

**Engineering Measures/Controls**

- Good general ventilation 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.

**Personal Protective Equipment**

- **Respiratory**
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
- **Eye/Face**
  - Wear safety goggles.
- **Skin/Body**
  - Wear protective clothing and gloves.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene  
NIOSH = National Institute of Occupational Safety and Health  
OSHA = Occupational Safety and Health Administration  
STEL = Short Term Exposure Limits are based on 15-minute exposures  
TWA = Time-Weighted Averages are based on 8-hour, 40-hour/week exposures
Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Aerosol</th>
<th>Appearance/Description</th>
<th>Aerosol with a solvent odor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Aerosol</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Color</td>
<td>Data</td>
<td>Odor</td>
<td>Solvent</td>
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<tr>
<td>Odor Threshold</td>
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</table>

<table>
<thead>
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<th>General Properties</th>
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<tbody>
<tr>
<td>Boiling Point</td>
<td>Data</td>
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<td>Data</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
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<tr>
<td>Specific Gravity/Relative Density</td>
<td>Data</td>
<td>Data</td>
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</tr>
<tr>
<td>Viscosity</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Volatility</th>
<th>Data</th>
<th>Data</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1</td>
<td>n-Butyl Acetate = 1</td>
<td>&gt; 1 Air=1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Data</th>
<th>Data</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>LEL</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Data</th>
<th>Data</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
</tbody>
</table>

9.2 Other Information

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Heat, sparks, open flames. Incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents, acids, and alkalis.

10.6 Hazardous decomposition products

On burning may release carbon dioxide and carbon monoxide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects
### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute Toxicity</th>
<th>Chronic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (&lt; 0.1%)</td>
<td>Inhalation-Hamster TCLo ≤ 3 mg/m³ 6 Hour(s) 78 Week(s)-Intermittent; Lungs, Thorax, or Respiration: Fibrosis (interstitial); Lungs, Thorax, or Respiration: Changes in lung weight; Inhalation-Rat TCLo ≤ 80 mg/m³ 26 Week(s)-Intermittent; Lungs, Thorax, or Respiration: Fibrosis, focal (pneumoconiosis); Blood: Changes in spleen; Immunological: Decrease in cellular immune response;</td>
<td></td>
</tr>
<tr>
<td>Heptane (5% TO 15%)</td>
<td>Inhalation-Rat LC50 ≤ 103 g/m³ 4 Hour(s)</td>
<td></td>
</tr>
<tr>
<td>Isobutane (1% TO 6%)</td>
<td>Inhalation-Rat LC50 ≤ 57 pph 15 Minute(s); Behavioral: Tremor; Behavioral: Convulsions or effect on seizure threshold; Lungs, Thorax, or Respiration: Respiratory depression</td>
<td></td>
</tr>
</tbody>
</table>

### GHS Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Skin Irritation 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Data lacking</td>
</tr>
</tbody>
</table>

### Potential Health Effects

#### Inhalation

- **Acute (Immediate)**: May cause irritation.
- **Chronic (Delayed)**: Repeated and prolonged inhalation may result in impaired lung function.

#### Skin

- **Acute (Immediate)**: Causes skin irritation.
- **Chronic (Delayed)**: No data available

#### Eye

- **Acute (Immediate)**: Causes serious eye irritation.
### Chronic (Delayed)
No data available

### Ingestion

#### Acute (Immediate)
Under normal conditions of use, no health effects are expected.

#### Chronic (Delayed)
No data available

### Carcinogenic Effects
This material contains Quartz which is considered a carcinogen, however this material as a whole is not classified as a carcinogen.

<table>
<thead>
<tr>
<th>Carcinogenic Effects</th>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Group 1-Carcinogenic</td>
<td>Known Human Carcinogen</td>
</tr>
</tbody>
</table>

Key to abbreviations
- LC = Lethal Concentration
- LD = Lethal Dose
- TC = Toxic Concentration

### Section 12 - Ecological Information

#### 12.1 Toxicity
This product contains a component that is potentially toxic to aquatic organisms and may have long lasting effects to the aquatic environment.

#### 12.2 Persistence and degradability
Material data lacking.

#### 12.3 Bioaccumulative potential
Material data lacking.

#### 12.4 Mobility in Soil
Material data lacking.

#### 12.5 Results of PBT and vPvB assessment
No PBT and vPvB assessment has been conducted.

#### 12.6 Other adverse effects
No studies have been found.

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

- **Product waste**
  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- **Packaging waste**
  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>
Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications | Acute, Chronic, Fire, Pressure (Sudden Release of)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Isobutane
- Heptane
- Propane

- Quartz

- Graphite

Canada - WHMIS - Ingredient Disclosure List

- Isobutane
- Heptane
- Propane
- Quartz
- Graphite

Environment

Canada - CEPA - Priority Substances List

- Isobutane

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

Europe

Other
EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

Japan

Environment
Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

Other
Japan - Chemical Substance Control Law (CSCL) - Monitoring Chemical Substances
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Deleterious
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Poisonous
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

United States

Labor
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
<table>
<thead>
<tr>
<th>Environment</th>
<th>U.S. - OSHA - Specifically Regulated Chemicals</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Isobutane 75-28-5 Not Listed</td>
</tr>
<tr>
<td></td>
<td>Heptane 142-82- Not Listed</td>
</tr>
<tr>
<td></td>
<td>Propane 74-98- Not Listed</td>
</tr>
<tr>
<td></td>
<td>Quartz 14808-60-7 Not Listed</td>
</tr>
<tr>
<td></td>
<td>Graphite 7782-42- Not Listed</td>
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<th>U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</th>
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<th>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</th>
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<th>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</th>
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<th>Environment</th>
<th>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</th>
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<th>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</th>
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• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
carcinogen, initial date 10/1/88
• Quartz 14808-60-7 (airborne particles of Not Listed
respirable size)
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
• Isobutane 75-28-5 Not Listed
• Heptane 142-82-5 Not Listed
• Propane 74-98-6 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.
15.3 Other Information

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)
- H220 - Extremely flammable gas
- H225 - Highly flammable liquid and vapour
- H280 - Contains gas under pressure; may explode if heated
- H304 - May be fatal if swallowed and enters airways
- H336 - May cause drowsiness or dizziness
  - H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- R11 - Highly flammable.
- R38 - Irritating to skin.
- R50 - Very toxic to aquatic organisms.
- R65 - Harmful: may cause lung damage if swallowed.
- R67 - Vapours may cause drowsiness and dizziness.

Last Revision Date
- 06/21/17

Preparation Date
- No data available

Disclaimer/Statement of Liability
- The information contained herein is based on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.

Key to abbreviations
- NDA = No data available