Safety Data Sheet

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

1.1 Product identifier

Product Name: Buehler Konductomet I / SDS# 9101395
SDS Number/Grade: 9101395
Product Code: 20-3375-016; 20-3375-400

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

Relevant identified use(s): Molding compound

1.3 Details of the supplier of the safety data sheet

Manufacturer: BUEHLER, a division of Illinois Tool Works Inc.
41 Waukegan Road
Lake Bluff, IL 60044
United States

Telephone (Technical): 847-295-6500

1.4 Emergency telephone number

Manufacturer: 800-424-9300 - CHEMTREC

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
- Skin Sensitization 1 - H317
- Carcinogenicity 1A - H350i
- Specific Target Organ Toxicity Repeated Exposure 1 - H372

DSD/DPD
- Toxic (T)
- Carcinogenic Substances - Category 1
- R43, R45, R48/23

2.2 Label Elements

CLP
DANGER
Hazard statements

- H317 - May cause an allergic skin reaction
- H350i - May cause cancer by inhalation.
- H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust.
- P264 - Wash thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves.

Response

- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P363 - Wash contaminated clothing before reuse.
- P321 - Specific treatment, see supplemental first aid information.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal

- P405 - Store locked up.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Risk phrases

- R43 - May cause sensitisation by skin contact.
- R45 - May cause cancer.
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases

- S24 - Avoid contact with skin.
- S37 - Wear suitable gloves.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

CLP

- May form combustible dust concentrations in air.
  According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- May form combustible dust concentrations in air.
  According to European Directive 1999/45/EC this material is considered dangerous.

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2.1 Classification of the substance or mixture

- Carcinogenicity 1A
- Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

UN GHS

DANGER
United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012
- Carcinogenicity 1A
- Specific Target Organ Toxicity Repeated Exposure 1
- Combustible Dust

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- May form combustible dust concentrations in air.

Precautionary statements

Prevention
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use personal protective equipment as required.

Response
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.

Storage/Disposal
- Store locked up.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS
- May form combustible dust concentrations in air.
- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012
- Carcinogenicity 1A
- Specific Target Organ Toxicity Repeated Exposure 1
- Combustible Dust

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- May form combustible dust concentrations in air.

Precautionary statements

Prevention
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves, clothing , and eye/face protection , .

Response
- IF exposed or concerned: Get medical advice/attention.

Storage/Disposal
- Store locked up.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012
## 2.1 Classification of the substance or mixture

**WHMIS**

- Other Toxic Effects - D2A

## 2.2 Label elements

**WHMIS**

- Other Toxic Effects - D2A

## 2.3 Other hazards

**WHMIS**

- May form combustible dust concentrations in air.

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

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### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

- Material does not meet the criteria of a substance.

#### 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>
<tbody>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>CAS:9003-35-4</td>
<td>&lt; 40%</td>
<td>Ingestion/Oral-Rat LD50 • &gt;5 g/kg</td>
<td>UN GHS: Not Classified&lt;br&gt;EU DSD/DPD: Not Classified&lt;br&gt;EU CLP: Not Classified&lt;br&gt;OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Graphite</td>
<td>CAS:7782-42-5&lt;br&gt;EC Number:231-955-3</td>
<td>&lt; 40%</td>
<td>NDA</td>
<td>UN GHS: STOT RE 1 (Lungs, Inhl)&lt;br&gt;EU DSD/DPD: T; R48/23&lt;br&gt;EU CLP: STOT RE 1 (Lungs, Inhl), H372&lt;br&gt;OSHA HCS 2012: Comb. Dust; STOT RE 1 (Lungs, Inhl)</td>
<td>NDA</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>CAS:65997-17-3&lt;br&gt;EC Number:266-046-0</td>
<td>&lt; 30%</td>
<td>NDA</td>
<td>UN GHS: Not Classified&lt;br&gt;EU DSD/DPD: Not Classified&lt;br&gt;EU CLP: Not Classified&lt;br&gt;OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>CAS:100-97-0&lt;br&gt;EC Number:202-905-8&lt;br&gt;EU Index:612-101-00-2</td>
<td>&lt; 7%</td>
<td>NDA</td>
<td>UN GHS: Eye Irrit. 2&lt;br&gt;EU DSD/DPD: Annex VI, Table 3.2: F, R11; R43&lt;br&gt;EU CLP: Annex VI, Table 3.1: Flam. Sol. 2, H228; Skin Sens. 1, H317&lt;br&gt;OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2</td>
<td>NDA</td>
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<tr>
<td>C.I. Solvent Black 7</td>
<td>CAS:8005-02-5</td>
<td>&lt; 2%</td>
<td>NDA</td>
<td>UN GHS: Not Classified&lt;br&gt;EU DSD/DPD: Not Classified&lt;br&gt;EU CLP: Not Classified</td>
<td>NDA</td>
</tr>
</tbody>
</table>
## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

**Inhalation**
- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

**Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention.

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

**Ingestion**
- Do NOT induce vomiting. Give water or milk and activated charcoal. Never give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

### 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**
- Water fog, foam, dry chemical, CO2.

**Unsuitable Extinguishing Media**
- No data available

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion**
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the
Hazardous Combustion Products

- May include: phenol, formaldehyde, ammonia, carbon monoxide, carbon dioxide, hydrogen cyanide, particulate matter, and other organic compounds including benzo (a)pyrene.

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

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

- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away. Contain spill and monitor for excessive dust accumulation. Avoid unnecessary personnel and equipment traffic in the spill area.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Avoid generating dust.
  - SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
  - LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading. Use clean nonsparking tools to collect material.
  - Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

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

- Use only with adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place. Keep away from incompatible materials.

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>Phenol (108-95-2)</th>
<th>Exposure Limits/Guidelines</th>
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</thead>
<tbody>
<tr>
<td><strong>Result</strong></td>
<td><strong>ACGIH</strong></td>
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<tr>
<td>TWAs</td>
<td>5 ppm TWA</td>
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<tr>
<td>Ceilings</td>
<td>Not established</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Quartz (14808-60-7)</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Result</strong></td>
<td><strong>ACGIH</strong></td>
</tr>
<tr>
<td>TWAs</td>
<td>0.025 mg/m³ TWA (respirable fraction)</td>
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</table>

<table>
<thead>
<tr>
<th>Glass, oxide, chemicals as Glass wool fiber</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Result</strong></td>
<td><strong>ACGIH</strong></td>
</tr>
<tr>
<td>TWAs</td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt;5 μm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphite as Particulates not otherwise classified (PNOC)</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Result</strong></td>
<td><strong>ACGIH</strong></td>
</tr>
<tr>
<td>TWAs</td>
<td>2 mg/m³ TWA (all forms except graphite fibers, respirable fraction)</td>
</tr>
</tbody>
</table>

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. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

**Personal Protective Equipment**

**Respiratory**
- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. 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 appropriate gloves. Wear long sleeves and/or protective coveralls.

**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
OSHA = Occupational Safety and Health Administration
NIOSH = National Institute of Occupational Safety and Health
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties
### 9.1 Information on Physical and Chemical Properties

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<tr>
<th>Material Description</th>
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<td><strong>Physical Form</strong></td>
<td>Solid</td>
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<tr>
<td><strong>Appearance/Description</strong></td>
<td>Black colored granules with a mild and characteristic odor.</td>
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<tr>
<td><strong>Color</strong></td>
<td>Black</td>
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<tr>
<td><strong>Odor Threshold</strong></td>
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</table>

<table>
<thead>
<tr>
<th>General Properties</th>
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<td><strong>Boiling Point</strong></td>
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</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Water Solubility</strong></td>
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<tr>
<td><strong>Oxidizing Properties:</strong></td>
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<tr>
<td><strong>Explosive Properties</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
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<table>
<thead>
<tr>
<th>Volatility</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Vapor Pressure</strong></td>
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<tr>
<td><strong>Evaporation Rate</strong></td>
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<tr>
<td><strong>Vapor Density</strong></td>
<td>Data lacking</td>
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</table>

<table>
<thead>
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<th>Flammability</th>
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<td><strong>Flash Point</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>UEL</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>LEL</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Autoignition</strong></td>
<td>&gt; 550 °C (&gt; 1022 °F)</td>
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<td><strong>Flammability (solid, gas)</strong></td>
<td>Data lacking</td>
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<table>
<thead>
<tr>
<th>Environmental</th>
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</thead>
<tbody>
<tr>
<td><strong>Octanol/Water Partition coefficient</strong></td>
<td>Data lacking</td>
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</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 under normal temperatures and pressures.

#### 10.3 Possibility of hazardous reactions
- Hazardous polymerization not indicated.

#### 10.4 Conditions to avoid
- Avoid generating dust. Keep away from heat, sparks and flame.

#### 10.5 Incompatible materials
- Strong bases or oxidants. Aluminum chloride + nitromethane, Formaldehyde, peroxydisulfuric acid, peroxymonosulfuric acid, sodium nitrite + heat, Aluminum + nitrobenzene, sodium nitrate + trifluoroacetic acid, butadiene.

#### 10.6 Hazardous decomposition products
- May occur during fire or at very high temperatures.

### Section 11 - Toxicological Information

#### 11.1 Information on toxicological effects
### Classification

**Carcinogenicity**

**GHS Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>EU/CLP</th>
<th>Data lacking</th>
<th>OSHA HCS 2012</th>
<th>Data lacking</th>
<th>UN GHS</th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP</td>
<td>Carcinogenicity 1A</td>
<td>OSHA HCS 2012</td>
<td>Carcinogenicity 1A</td>
<td>UN GHS</td>
<td>Carcinogenicity 1A</td>
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</tbody>
</table>

### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Acute Toxicity</th>
<th>Mutagen</th>
<th>Tumorigen / Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol (&lt;1%)</td>
<td>108-95-2</td>
<td>Ingestion/Oral-Rat LD50 • 317 mg/kg; Inhalation-Rat LC50 • 316 mg/m³</td>
<td>Micronucleus test • Ingestion/Oral-Rat • 265 mg/kg;</td>
<td>Skin-Mouse Tallo • 16 g/kg 40 Week(s)-Intermittent;</td>
</tr>
<tr>
<td>Glass, oxide, chemicals (&lt;30%)</td>
<td>65997-17-3</td>
<td>Ingestion-Rat Talo • 16 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or</td>
<td>Micronucleus test • Ingestion/Oral-Rat Talo • 200 mg/kg;</td>
<td>Inhalation-Rat Talo • 16 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent;</td>
</tr>
<tr>
<td>Quartz (&lt;1.7%)</td>
<td>14808-60-7</td>
<td>Inhalation-Human Talo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; Lungs, Thorax, or</td>
<td>Inhalation-Rat Talo • 200 mg/kg; Lungs, Thorax, or</td>
<td>Inhalation-Human Talo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent;</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde (&lt;40%)</td>
<td>9003-35-4</td>
<td>Ingestion/Oral-Rat LD50 • &gt;5 g/kg; Skin-Rat LD50 • &gt;2 g/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexamethylenetetramine (&lt;7%)</td>
<td>100-97-0</td>
<td>Ingestion/Oral-Mouse LD50 • 569 mg/kg</td>
<td>Morphological transformation • Unreported Route-Hamster • Kidney (Somatic cell) • 10 mg/L;</td>
<td>Subcutaneous-Rat Talo • 140 g/kg 78 Week(s)-Intermittent;</td>
</tr>
</tbody>
</table>
### Potential Health Effects

#### Inhalation

**Acute (Immediate)**  
- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

**Chronic (Delayed)**  
- Repeated and prolonged exposure to dust may cause lung effects including pneumoconiosis.

#### Skin

**Acute (Immediate)**  
- Exposure to dust may cause mechanical irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

**Chronic (Delayed)**  
- No data available.

#### Eye

**Acute (Immediate)**  
- Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

**Chronic (Delayed)**  
- No data available.

#### Ingestion

**Acute (Immediate)**  
- Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

**Chronic (Delayed)**  
- No data available.

#### Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

<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>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>NDA</td>
<td>Not Listed</td>
<td>Reasonably Anticipated to be Human Carcinogen</td>
</tr>
</tbody>
</table>
Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

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>DOT</th>
<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>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
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<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Data lacking.

Section 15 - Regulatory Information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications**
- Chronic, 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>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>9003-35-4</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Canada - WHMIS - Classifications of Substances**
- C.I. Solvent Black 7 8005-02-5 Not Listed
- Hexamethylenetetramine 100-97-0 B4
- Phenol 108-95-2 D1A, E
- Phenol, polymer with formaldehyde 9003-35-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
  - Quartz 14808-60-7 Not Listed
- Graphite 7782-42-5 D2A (natural); D2B (synthetic)

**Canada - WHMIS - Ingredient Disclosure List**
- C.I. Solvent Black 7 8005-02-5 Not Listed
- Hexamethylenetetramine 100-97-0 0.1 %
- Phenol 108-95-2 1 %
- Phenol, polymer with formaldehyde 9003-35-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Quartz 14808-60-7 1 %
- Graphite 7782-42-5 Not Listed

**Environment**

**Canada - CEPA - Priority Substances List**
- C.I. Solvent Black 7 8005-02-5 Not Listed
- Hexamethylenetetramine 100-97-0 Not Listed
- Phenol 108-95-2 Priority Substance List 2 (substance not considered toxic)
- Phenol, polymer with formaldehyde 9003-35-4 Not Listed
### United States

#### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
- C.I. Solvent Black 7: 8005-02-5 Not Listed
- Hexamethylenetetramine: 100-97-0 Not Listed
- Phenol: 108-95-2 Not Listed
- Phenol, polymer with formaldehyde: 9003-35-4 Not Listed
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Quartz: 14808-60-7 Not Listed
- Graphite: 7782-42-5 Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**
- C.I. Solvent Black 7: 8005-02-5 Not Listed
- Hexamethylenetetramine: 100-97-0 Not Listed
- Phenol: 108-95-2 Not Listed
- Phenol, polymer with formaldehyde: 9003-35-4 Not Listed
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Quartz: 14808-60-7 Not Listed
- Graphite: 7782-42-5 Not Listed

#### Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
- C.I. Solvent Black 7: 8005-02-5 Not Listed
- Hexamethylenetetramine: 100-97-0 Not Listed
- Phenol: 108-95-2 Not Listed
- Phenol, polymer with formaldehyde: 9003-35-4 Not Listed
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Quartz: 14808-60-7 Not Listed
- Graphite: 7782-42-5 Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**
- C.I. Solvent Black 7: 8005-02-5 Not Listed
- Hexamethylenetetramine: 100-97-0 Not Listed
- Phenol: 108-95-2 1000 lb final RQ; 454 kg final RQ
- Phenol, polymer with formaldehyde: 9003-35-4 Not Listed
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Quartz: 14808-60-7 Not Listed
- Graphite: 7782-42-5 Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**
- C.I. Solvent Black 7: 8005-02-5 Not Listed
- Hexamethylenetetramine: 100-97-0 Not Listed
- Phenol: 108-95-2 Not Listed
- Phenol, polymer with formaldehyde: 9003-35-4 Not Listed
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Quartz: 14808-60-7 Not Listed
- Graphite: 7782-42-5 Not Listed
### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CERCLA/SARA RQ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>1000 lb EPCRA RQ</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>9003-35-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CERCLA/SARA RQ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>500 lb lower TPQ; 10000 lb upper TPQ</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>9003-35-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CERCLA/SARA RQ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>9003-35-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CERCLA/SARA RQ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>9003-35-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

---

### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CERCLA/SARA RQ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde</td>
<td>9003-35-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Carcinogen, initial date 10/1/88 (airborne particles of respirable size)

**U.S. - California - Proposition 65 - Developmental Toxicity**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CERCLA/SARA RQ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Solvent Black 7</td>
<td>8005-02-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexamethylenetetramine</td>
<td>100-97-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
• Phenol 108-95-2 Not Listed
• Phenol, polymer with formaldehyde 9003-35-4 Not Listed
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• C.I. Solvent Black 7 8005-02-5 Not Listed
• Hexamethylenetetramine 100-97-0 Not Listed
• Phenol 108-95-2 Not Listed
• Phenol, polymer with formaldehyde 9003-35-4 Not Listed
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• C.I. Solvent Black 7 8005-02-5 Not Listed
• Hexamethylenetetramine 100-97-0 Not Listed
• Phenol 108-95-2 Not Listed
• Phenol, polymer with formaldehyde 9003-35-4 Not Listed
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
• C.I. Solvent Black 7 8005-02-5 Not Listed
• Hexamethylenetetramine 100-97-0 Not Listed
• Phenol 108-95-2 Not Listed
• Phenol, polymer with formaldehyde 9003-35-4 Not Listed
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Quartz 14808-60-7 Not Listed
• Graphite 7782-42-5 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
• C.I. Solvent Black 7 8005-02-5 Not Listed
• Hexamethylenetetramine 100-97-0 Not Listed
• Phenol 108-95-2 Not Listed
• Phenol, polymer with formaldehyde 9003-35-4 Not Listed
• Glass, oxide, chemicals 65997-17-3 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)
• H228 - Flammable solid
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage.
H330 - Fatal if inhaled
H341 - Suspected of causing genetic defects.
H373 - May cause damage to organs through prolonged or repeated exposure.

R11 - Highly flammable.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R34 - Causes burns.
R48/20/21/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R68 - Possible risk of irreversible effects.

Disclaimer/Statement of Liability

To the best of our knowledge, the information contained in this SDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Key to abbreviations
NDA = No data available