1. Identification of the Substance/Mixture and of the Company

Product Code: SiSiB® PC7130
Chemical Name: Methyltris(methylethylketoxime)silane
Manufacturer: Power Chemical Corporation Limited.
Post Address: Guanghua Science & Technology Industrial Park, No. 104, Guanghua Road, Nanjing 210007, P.R.China
Emergency Telephone Number: +86-25-8468-0091
Use of Substance: For Industrial Use

2. Hazardous Identification

Hazard Summary
Combustible. May be harmful if inhaled. May be harmful if swallowed. May be harmful if absorbed through skin. Irritating to respiratory system. May cause eye and skin irritation. May cause burns. May cause allergic skin reaction. May cause irritation of the gastrointestinal tract. Will reduce the ability of the blood to transport oxygen (methemoglobinemia and anemia).

Potential Health Effects
Skin: May cause skin irritation. May be harmful if absorbed through skin. May cause allergic skin reaction. May cause systemic poisoning with symptoms paralleling those of inhalation.
Eyes: May cause eye irritation. Signs/symptoms can include redness, swelling, pain, and tearing. May cause burns.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause systemic poisoning with symptoms paralleling those of inhalation.
Inhalation: May cause respiratory tract irritation. Vapours may be irritating to eyes, nose, throat, and lungs. The vapour may have narcotic effect. Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Will reduce the ability of the blood to transport oxygen (methemoglobinemia and anemia).
Chronic Exposure: Will reduce the ability of the blood to transport oxygen (methemoglobinemia and anemia).

Toxicology data for the components
Based on animal evidence, there is limited evidence of a carcinogenic effect.
The significance of these findings for humans has not been determined.

**Aggravated Medical Condition:**
- Eye disorders
- Skin disorders
- Respiratory disorders

**Target Organs:**
- Eyes
- Skin
- Respiratory system
- Central nervous system
- Gastrointestinal tract

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

### 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyltris(2-butanoneoxime)silane</td>
<td></td>
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<tr>
<td>Chlorodimethylphenylsilane</td>
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</tbody>
</table>

**Formula:** C_{13}H_{27}N_{3}O_{3}Si

**Molecular Weight:** 301.5 g/mol

### 4. First Aid Measures

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

**In case of skin contact**
Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.

**In case of eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

**If swallowed**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

5. Fire Fighting Measures

Suitable extinguishing media
Carbon dioxide (CO2), Alcohol-resistant foam. Dry chemical, Water may be ineffective.
Decomposes in contact with water.

Special hazards arising from the substance or mixture
Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. Methylethyl ketoxime (MEKO), Silicone oxide, Methyl ethyl ketone.

Precautions for fire-fighters
Wear self contained breathing apparatus and protective suit.

Further information
Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

Methods and materials for containment and cleaning up
Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Prevent spreading over a wide area (e.g. by containment or oil barriers). Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

7. Handling and Storage

Precautions for safe handling
Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Protect from atmospheric moisture and water. Do not smoke. Do not swallow. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities
Store in area designed for storage of flammable liquids. Protect from physical damage. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from atmospheric moisture and water. Store away from incompatible substances. Container hazardous when empty. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Specific end uses
no data available

8. Exposure Controls and Personal Protection

Control parameters
Components with workplace control parameters

Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields Goggles. If splashes are likely to occur, wear: Goggles or face shield, giving complete protection to eyes

Hand protection
Solvent-resistant gloves (butyl-rubber). Neoprene gloves. Gloves must be inspected prior to use. Replace when worn.

Skin and body protection
Wear as appropriate: Long sleeved clothing Gloves. If splashes are likely to occur, wear: Protective suit

Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection. For rescue and maintenance work in storage tanks use self-contained breathing apparatus.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance
Form: liquid
Colour: colourless

b) Odour
slightly ether-like

c) Odour Threshold
no data available
10. Stability and Reactivity

Reactivity
no data available

Chemical stability
no data available

Possibility of hazardous reactions
no data available

Conditions to avoid
Heat, flames and sparks. Keep away from direct sunlight. Protect from atmospheric moisture and water.

Materials to avoid
Acids, Oxidizing agents, Metals, Iron

Hazardous decomposition products
Decomposes in contact with water. Possible decomposition products in case of hydrolysis are: Methylethyl ketoxime (MEKO). In case of fire hazardous decomposition products may
be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. Methyl ethyl ketone. Silicone oxide.

11. Toxicological Information

**Acute toxicity**
LD50 rat
Dose: 2,260 - 2,650 mg/kg
Test substance: Butan-2-one O,O',O''-(methylsilylidyne)trioxime

**Acute dermal toxicity**
LD50 rabbit
Dose: 1,000 - 1,800 mg/kg
Test substance: Butanone oxime

**Acute inhalation toxicity**
LC50 rat
Dose: > 4.8 mg/l
Exposure time: 4 h
Test substance: Butanone oxime

**Skin irritation**
rabbit
slight irritation
Test substance: Butan-2-one O,O',O''-(methylsilylidyne)trioxime

**Eye irritation**
rabbit
slight irritation
Test substance: Butan-2-one O,O',O''-(methylsilylidyne)trioxime

**Sensitisation**
guinea pig
May cause sensitization by skin contact.
Causes sensitization.
Test substance: Butanone oxime

**Repeated dose toxicity**
Oral rat Subacute toxicity, Blood effects, anemia, No observed adverse effect level 10mg/kg/d
Exposure time: 28 d
Test substance: Butan-2-one O,O',O''-(methylsilylidyne)trioxime

**Repeated dose toxicity**
Inhalation rat Subchronic toxicity, Blood effects, anemia
NOEL: 25 ppm
Exposure time: 4 Weeks
Test substance: Butanone oxime

**Repeated dose toxicity**
Inhalation rat Carcinogenicity, Liver tumors, 374 ppm
Exposure time: 26 Months
Test substance: Butanone oxime

**Repeated dose toxicity**
Inhalation mouse Carcinogenicity, Liver tumors, 374 ppm
Exposure time: 18 Months
Test substance: Butanone oxime

**Repeated dose toxicity**
Oral rat Transient target organ effects, central nervous system effects
NOEL: 13 mg/kg
Exposure time: 13 Weeks
Test substance: Butanone oxime

**Genotoxicity in vitro**
Chromosome aberration test in vitro Chinese Hamster Ovary Cells with or without metabolic activation
negative
Test substance: Butan-2-one O,O',O"-(methylsilylidyne)trioxime

**Genotoxicity in vivo**
Test substance: Butanone oxime
In vivo tests did not show mutagenic effects

**Reproductive toxicity**
Application Route: Oral rat
Exposure time: Two-generation reproductive toxicity
Test substance: Butan-2-one O,O',O"-(methylsilylidyne)trioxime
No toxicity to reproduction

**Teratogenicity**
Application Route: Oral rat
Test substance: Butan-2-one O,O',O"-(methylsilylidyne)trioxime
Did not show teratogenic effects in animal experiments, even at maternally toxic concentrations.

**Additional advice**
Toxicology data for the components
Based on animal evidence, there is limited evidence of a carcinogenic effect.
The significance of these findings for humans has not been determined.

### 12. Ecological Effects

**Toxicity**
No data available

**Persistence and degradability**
No data available

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**PBT and vPvB assessment**
No data available

**Other adverse effects**
No data available

### 13. Disposal Considerations

**Waste treatment methods**
Observe all Federal, State, and Local Environmental regulations.

### 14. Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN-Number</th>
<th>1993</th>
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<tbody>
<tr>
<td>Proper shipping name</td>
<td>Combustible liquid, n.o.s.</td>
<td></td>
</tr>
<tr>
<td>(Methyl Oximino Silane)</td>
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<td></td>
</tr>
<tr>
<td>Class</td>
<td>CBL</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>Hazard Labels</td>
<td>NON</td>
<td></td>
</tr>
</tbody>
</table>

Required only for US-DOT Bulk Shipments

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture**
no data available

**Chemical Safety Assessment**
no data available
16. Other Information

Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.