MSDS Report

Samples: SILICA GEL

Client Unit: TOPCOD FOSHANSHUNDE INDUSTRY LTD.

Client Address: The First One Industry Area, Jibei, Longjiang Town, Shunde District, Foshan City, Guangdong, China.
Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: SILICA GEL
Manufacture: TOPCOD FOSHANSHUNDE INDUSTRY LTD.
Address: The First One Industry Area, Jibei, Longjiang Town, Shunde District, Foshan City, Guangdong, China.
Post Code: 528318
Tel: 0757-23391489
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Fax: 0757-23391657
E-Mail: jet.he@foxmail.com

Section 2 – Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Formula</th>
<th>CAS No.</th>
<th>In % By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide</td>
<td>SiO₂</td>
<td>7631-86-9</td>
<td>99.7</td>
</tr>
<tr>
<td>Iron oxide</td>
<td>Fe₂O₃</td>
<td>1309-37-1</td>
<td>0.08</td>
</tr>
<tr>
<td>Alumina</td>
<td>Al₂O₃</td>
<td>1344-28-1</td>
<td>0.16</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>CaO</td>
<td>1305-78-8</td>
<td>0.04</td>
</tr>
<tr>
<td>Sodium oxide</td>
<td>Na₂O</td>
<td>1313-59-3</td>
<td>0.02</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Eye
A certain amount may cause eyes mechanical irritation.

**Skin**
A certain amount may cause skin irritation.

**Inhalation**
May cause irritating to the respiratory tract. If contact repeated may cause pneumoconiosis.

**Ingestion**
May cause digestive tract irritation if ingested.

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### Section 4 - First Aid Measures

**Eye**
Immediately rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical advice if need.

**Skin**
Immediately flush skin with plenty of water at least 15 minutes. Remove contaminated clothing/shoes. Follow by washing with soap and water. If irritation persists, get medical attention. Do not reuse clothing until cleaned.

**Inhalation**
Remove victim to fresh air. If not breathing, give artificial breathing. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion**
Do not induce vomiting. Consult a physician.

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### Section 5 - Fire Fighting Measures

**Flammability:** Non-flammable.

**Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Such as CO₂, dry chemical, water.

**Special protective equipment for fire-fighters**
Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous Combustible Products**
Emits toxic fumes under fire condition.
Section 6 - Accidental Release Measures

Steps to be taken in case material is spilled or released
Ventilate and evacuate area. Wear appropriate personal protective equipment as specified in Section 8. Wet sweep up and containerize for reclamation or disposal, using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Waste Disposal Method
Use Waste Disposal Methods in accordance with local rules and regulations.

Section 7 - Handling and Storage

Handling Procedures
Keep containers closed when not in use. Minimize dust generation and accumulation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash skin with soap and water after contact. Empty containers may contain product residue. Do not reuse and damage empty container.

Storage Requirements
Store in a cool, dry and well-ventilated place. Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Keep away incompatible substances, such as strong oxidizing agents, strong acid, strong basis, hydrofluoric acid, fluorine, oxygen difluoride, chlorine trifluoride, manganese trioxide, interhalogens.

Section 8 - Exposure Controls, Personal Protection

Respiratory Protection
Appropriate vapor canister, self-contained breathing apparatus or supplied-air hose mask, if needed.

Ventilation
Sufficient, in volume and pattern, to keep workroom concentration below current applicable OSHA safety and health requirements.
Personal Protection
Safety glasses, protective gloves, and lab coat, eye washer and safety shower if needed.

Exposure Limits
Silicon dioxide
ACGIH TLV 0.025mg/m³ (Total; TWA)
OSHA PEL 30mg/m³ (Total; TWA); 10 mg/m³ (Respirable fraction)

Iron oxide
OSHA PEL 10mg/m³ (Fume).
ACGIH TLV 5mg/m³ (Fume).

Alumina
OSHA PEL 15mg/m³ total dust (TWA), 5mg/m³ respirable fraction (TWA).
ACGIH TWA 10mg/m³ particulate matter containing no asbestos and <1% crystalline silica.

Calcium oxide
ACGIH TLV 2mg/m³.
OSHA PEL 5mg/m³/ 8 hours (TWA).
NIOSH TWA 2mg/m³.

Section 9 - Physical and Chemical Properties

Flammability: Non-Flammable.
Density: 0.73g/cm³
Solubility: Be difficult to soluble in water.

Appearance characters: Transparent with odorless solid particle.
Chemical Uses: Desiccant.

Section 10 - Stability and Reactivity

Storage Stability
Stable under recommended storage conditions.

**Incompatibilities**
Humidity, air, excess dust generation, strong oxidizing agents, strong acid, strong basis, hydrofluoric acid, fluorine, oxygen difluoride, chlorine trifluoride, manganese trioxide, interhalogens.

**Hazardous Combustible Products**
Emits toxic fumes under fire condition.

**Hazardous Polymerization**
Will not occur.

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**Section 11 - Toxicological Information**

**Silicon dioxide**
**Oral LD50 for Rat:** >10000mg/kg.
**Dermal LD50 for Rabbit:** >5000mg/kg.

**Iron oxide**
**Oral LD50 for Rat:** ≥5000mg/kg.

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**Section 12 - Ecological Information**

Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks.

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**Section 13 - Disposal Considerations**

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.
Section 14 - Transport Information

Not a hazard material or hazard goods for transportation.

Transport Fashion: By road.

Section 15 - Regulatory Information

Law Information
<<Technical Instructions for the Safe Transport of Dangerous Goods>>
<<Dangerous Goods Regulation>> (IATA)
<<International Maritime Dangerous Goods>>
OSHA Hazards
TSCA Status
DSL Status
SARA 302/311/312/313
In accordance with all Federal, State and Local laws.

Section 16 - Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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