

Report No.: 0911303-137~1

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.
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Section 2 - Composition/Information on Ingredient

Chemical Name	Formula	CAS No.	In % By Weight
Silicon dioxide	SiO ₂	7631-86-9	99.7
Iron oxide	Fe ₂ O ₃	1309-37-1	0.08
Alumina	Al ₂ O ₃	1344-28-1	0.16
Calcium oxide	CaO	1305-78-8	0.04
Sodium oxide	Na ₂ O	1313-59-3	0.02

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.

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.

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 CO_2 , 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.

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.

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.

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.

MSDS Creation Date: December 04, 2009