

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: Fumed Silica

Chemical name: Silicon Dioxide

Synonyms: Silicon Dioxide, Synthetic Amorphous Silica, Pyrogenic Silica, Colloidal Anhydrous Silica, Hydrophilic Fumed Silica

Use of the Substance/Preparation: Used for Rheological control, reinforcement, and free flow agent in Silicone Rubber, Adhesives, Sealant, Coatings, Paint, Ink, Pigment, Pharma, Cosmetic and other applications

This MSDS is valid for the following grades: XYSIL150, XYSIL200, XYSIL200P, XYSIL200LS, XYSIL200F, XYSIL250, XYSIL300, XYSIL380, XYSIL300P, XYSIL380P

Manufacturer: China Star Chemical Company Limited
Emergency Tel No: +86 15295732570

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a dangerous substance according to GHS.

Label elements Signal word. Hazard Statement: Not applicable Precautionary Statements Not applicable

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause mechanical irritation. Irritating, but will not permanent Low hazard for usual industrial or commercial handling.

Skin Contact: Repeated exposure may cause skin dryness or cracking.

Inhalation: Dust may be irritating to respiratory tract. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Ingestion: Health injuries are not known or expected under normal use. Low hazard for usual industrial or commercial handling.

Carcinogenic Effects: Does not contain any substances greater than 0.1% listed by IARC, NTP, OSHA, ACGIH or EU.

Target Organ Effects: Lungs

Medical Conditions Aggravated by Exposure: Asthma, Respiratory disorder

Potential Environmental Effects: No special environmental precautions required.

3. COMPOSITION\INFORMATION ON INGREDIENTS

CAS-No.	Chemical Name	EINECS No.	Weight%	EU Classification
7631-86-9(General)112945-52-5(Specific)	Silicon Dioxide, Fumed Silica	2315454	>99.8	None

4. FIRST AID MEASURES

Inhaled: Move person into fresh air. If not breathing give artificial respiration

Skin Contact: Wash off with soap and plenty of water.

Eye Contact: Flush eyes with water as a precaution.

Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Ingestion: Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Protective Equipment for Firefighters: Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus.

Specific Hazards: Product resists ignition and does not promote flame spread.

Hazardous Decomposition and/or Combustion Products: None.

Risk of Dust Explosion: This material is an inorganic dust and will not create nor support conditions that would result in a dust explosion or fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid dust formation.

Methods for Cleaning Up: Clean up promptly by vacuum. Use a suitable vacuum cleaner. Do not create a dust cloud by using a brush or compressed air. Pick up and transfer to properly labelled containers.

Environmental Precautions: Do not let product enter drains..

7. HANDING AND STORAGE

Handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store together with volatile

chemicals as they may be adsorbed onto product. Keep at ambient temperatures.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Chemical Identity; Type; Exposure Limit Values; Source;

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary.

Individual protection measures, such as personal protective equipment

Personal protection equipment:

General information: No data available.

Eye/face protection: No data available.

Skin Protection/Hand Protection: No data available.

Other: No data available.

Respiratory Protection: No special protective equipment required. If dust occurs: Dust mask with P2 particle filter

Hygiene measures: When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatty soaps and skin cream for skin care. Wash contaminated clothing before reuse.

9. Physical and chemical properties

Appearance

Form solid-powder

Color white

Safety parameters

pH 3,6 - 4,5 at 40g/l

Melting point > 1.600 °C

Boiling point 2.200 °C at 1.013 hPa

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 2,200 g/cm³

Water solubility insoluble

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Exposure to moisture may affect product quality.

Materials to avoid Strong acids, Strong bases, Hydrogen fluoride, Oxidizing agents, Ammonia, Oxygen difluoride, Chlorine trifluoride

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - silicon oxides

11. TOXICOLOGICAL INFORMATION

General information: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: LD 50 (Rat): > 3.300 mg/kg Not toxic after single exposure;

No deaths occurred.

LD 50 (Rat): > 5.000 mg/kg (OECD 401) comparable product, Based on available data, the classification criteria are not met.

Dermal Product: LD 50 (Rabbit): > 5.000 mg/kg comparable product, Based on available data, the classification criteria are not met.

Inhalation Product: LC 0 (Rat): 0,139 mg/l (maximum concentration attainable in experiments),
No deaths occurred., Based on available data, the classification criteria are not met.

Repeated dose toxicity Product: No data available.

Skin Corrosion/Irritation Not irritating Product: analogous OECD method (Rabbit): Not irritating
Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Not irritating

Irritation Product: analogous OECD method (Rabbit): Not irritating. Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization Product: Not known.

Carcinogenicity Product: No evidence that cancer may be caused.

Germ Cell Mutagenicity

In vitro Product: No data available.

In vivo Product: No data available.

Reproductive toxicity Product: no evidence of reproduction toxic properties

Specific Target Organ Toxicity - Single Exposure Product: no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure Product: no evidence for hazardous properties

Aspiration Hazard Product: Not classified

Other effects: An Expert Judgment stated that no classification is necessary based on present knowledge. No toxicological tests are available on the product.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Behaviour in environmental compartments

Ecotoxicity effects

Toxicity to fish LC50 (Brachydanio rerio): > 10000mg/l, 96H

Toxicity to daphnia EC50 Daphnia magna: > 10000 mg/l, 24H

13. DISPOSAL CONSIDERATIONS

Product After solidification, material can be stored together with domestic waste. Observe national/local regulations.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous goods

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

15. REGULATORY INFORMATION

Hazard Classification: Not Hazardous

International regulations

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory Complies

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances Complies

ENCS - Japan Existing and New Chemical Substances Complies

IECSC - China Inventory of Existing Chemical Substances Complies

KECL - Korean Existing and Evaluated Chemical Substances Complies

PICCS - Philippines Inventory of Chemicals and Chemical Substances Complies

AICS - Australian Inventory of Chemical Substances Complies

NZIoC - New Zealand Inventory of Chemicals Complies

TCSI - Taiwan Chemical Substance Inventory Complies

16. OTHER INFORMATION

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.