

# MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Hydrophilic Fumed Silica

**Synonyms:** Silicon Dioxide, Synthetic Amorphous Silica, Pyrogenic (Fumed silica) Amorphous Silica

**Use of the Substance/Preparation:** Used for Rheological control, reinforcement, and free flow agent in silicone rubber, Coatings, Adhesives, pharmaceuticals and other applications

**This MSDS is valid for the following grades:** XYSIL 150, XYSIL 200, and XYSIL 300

**Manufacturer:** Henan Xunyu Chemical Co., Ltd

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## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

### Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 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
112945-52-5(Specific)	Synthetic Amorphous, Pyrogenic, Fumed Silica	2315454	SiO <sub>2</sub> >99.9	None
7631-86-9(General)				

### 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. HANDLING 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

### Personal protection equipment:

#### Respiratory protection:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection:

For prolonged or repeated contact use protective gloves.

#### Eye protection:

Safety glasses with side shields or chemical safety goggles.

#### Other protective clothing or equipment:

Barrier cream may be used to prevent dryness of skin.

### General hygiene and protection measures:

Do not breathe dust/vapor/mist/gas/aerosol. Wash thoroughly after handling.

## 9. Physical and chemical properties

### Appearance

**Form** solid-powder

**Color** white

### Safety parameters

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

<b>Melting point</b>	> 1.600 °C
<b>Boiling point</b>	2.200 °C at 1.013 hPa
<b>Flash point</b>	not applicable
<b>Ignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Density</b>	2,200 g/cm <sup>3</sup>
<b>Water solubility</b>	insoluble

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Exposure to moisture may affect product quality.
<b>Materials to avoid</b>	Strong acids, Strong bases, Hydrogen fluoride, Oxidizing agents, Ammonia, Oxygen difluoride, Chlorine trifluoride
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - silicon oxides

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	LD50 Oral - rat - 3.160 mg/kg
<b>Acute oral toxicity</b>	LD50 Rat : > 10000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 Rat : 0.139 mg/l, 4H No deaths occurred.
<b>Acute dermal toxicity</b>	LD50 Rabbit : > 5000 mg/kg
<b>Skin corrosion/irritation</b>	Not irritating
<b>Serious eye damage/eye irritation</b>	Not irritating
<b>Respiratory or skin sensitization</b>	Not irritating

### Carcinogenicity

Carcinogenicity - rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

## 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

### US DOT & CANADA TDG SURFACE

Not regulated for transport

### Transport by sea IMDG-Code

Not regulated for transport

### Air transport ICAO-TI / IATA-DGR

Not regulated for transport

## 15. REGULATORY INFORMATION

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

## 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.

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