

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, XYSIL 300

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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	Synthetic Amorphous, Pyrogenic, Fumed Silica	2315454	>99.9	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. 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
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Melting point	> 1.600 °C
Boiling point	2.200 °C at 1.013 hPa
Flash point	not applicable
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	2,200 g/cm ³
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

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