



MATERIAL SAFETY DATA SHEET

Revision Date: 3/27/2015

SYLYSIA (250, 250N, 270, 270N, 290, 310P, 320, 340, 350, 370, 380, 390, 430, 440, 450, 460, 470, 480, 530, 540, 550, 710, 730, 740, 770, 780, 930, 940, 950, 970)

1. Product and company identification

1.1 Identification of the substance: Silica, Amorphous; Silicic Acid; Amorphous Silicon Dioxide

Commercial product name: SYLYSIA

1.2 Company Identification:

Manufacture: Fuji Silysia Chemical USA Ltd.
1215 Sugg Parkway
Greenville, NC 27834
Tel: 252-413-0003 / Fax: 252-413-0490

Customer Information: Fuji Silysia Chemical Ltd.
1000 Park Forty Plaza, Suite 420
Durham, NC 27713
Tel: 1-800-SYLYSIA / Fax: 252-413-0490
Hours of operation:
Monday-Friday, 8 am to 5 pm (EST)
Corporate website: www.fujisilysia.com

Emergency Telephone No. (24h): 1-252-413-0003

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Silica, Amorphous: SiO ₂	7631-86-9	99.5-100%
Formula: SiO ₂		
Molecular Weight: 60.08 g mol ⁻¹		

3. Hazards Identification

Emergency overview and potential hazards



This product is not classified as hazardous according to the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Classification:

3.1 Hazard Statement(s):

This product is not classified as hazardous according to the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200)

3.2 Physical Hazards:

Acute health effects

This product is not classified as hazardous according to the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogens/Reproductive toxins:

This product is not classified as hazardous according to the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200)

HMIS Rating, product as packaged (Scale 0 – 4)



NFPA Rating (Scale 0 – 4)



4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact:



Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

If its use requires manual handling, wear long sleeves and close-weave cotton glove with tight-fitting wristlets.

Let any dust settle, then vacuum or sweep up material and place into a suitable disposal container.

Avoid generating further dusty conditions by using a vacuum or wet sweeping.

Wear gloves, safety glasses or goggles and dust mask.

7. Handling and Storage (Technical measures)

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Keep dust away from ignition source. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Take precaution to avoid accumulation of static charge.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Amorphous Silica:

- OSHA Silica gel – PEL – $80\text{mg}/\text{m}^3$ /%SiO₂

- ACGIH Threshold Limit Value (TLV): 10 mg/m³ (TWA) inhalable particulate; 3 mg/m³ (TWA) respirable particulate.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred



because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators:

If its use requires manual handling, wear long sleeves and close-weave cotton gloves with tight-fitting wristlets. If dusty conditions prevail, use of an approved NIOSH/MSHA dust respirator is recommended. Wear goggles if dust causes eye discomfort

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Dry, White powder

Odor: Odorless.

Solubility: Insoluble in water.

Specific Gravity as SiO₂: 2.20

pH : 2.5-8.3

Boiling Point as SiO₂: 2230 °C

Melting Point as SiO₂: 1610 °C

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

No information found.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Hydrogen fluoride, fluorine

Conditions to Avoid:

Heat, flame, ignition sources, dusting, moisture and incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----Cancer Lists-----

Ingredient	IARC	Category
Silica, Amorphous Silica	(7631-86-9)	3



12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

US DOT & Canada, Transport by sea, Transport by air: Not regulated for transport

15. Regulatory Information

15.1 US Federal Regulations

TSCA inventory status and TSCA Information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

US. Toxic Substances Control Act (TSCA) Section 8(b)

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA Title III - Section 302 - Notification and Information

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This material is not considered a hazard.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.



15.2 US States Regulatory Reporting

CA Proposition 65 Carcinogens:

This product does not contain any substances known to the State of California to cause cancer.

CA Proposition 65 Reproductive Toxins:

This product does not contain any substances known to the State of California to cause reproductive harm.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

15.3 Canadian Regulations:

Canadian Domestic Substance List

WHMIS (Canada)

Not controlled under WHMIS (Canada)

CEPA DSL: SILICA GEL

15.4 International regulations:

EINECS

SILICA GEL 231-545-4

DSCL (EEC)

R36/37/38 - Irritating to eyes, respiratory system and skin.

International Lists

Australia (NICNAS): SILICA GEL

Japan (MITI): SILICA GEL

Korea (TCCL): SILICA GEL

Philippines (RA6969): SILICA GEL

China: No products were found

USA: TSCA

16. Other Information

NFPA 704 (National Fire Protection Association):

Health - 1

Flammability - 0

Instability - 0

Others – none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1

Flammability - 0

Physical Hazard – 0

PPE – 0



Fuji Silysia Chemical, LTD.

Fuji Silysia Chemical, LTD.
1000 Park Forty Plaza, Suite 420
Durham, NC 27713
Phone: 919-484-4158
Fax: 919-544-7769

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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