

TELEPHONE
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FUJI SILYSIA CHEMICAL LTD.

2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN

FAX NO.
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MATERIAL SAFETY DATA SHEET

No. SMK-001-001-E

Revised date : May 20, 2010

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1. The Chemical Substance and Company Information

Names of chemical substance

Product name	SYLOMASK
Grade	52 / 55
Company's name	Fuji Silysia Chemical Ltd.
Address	2-1846 Kozoji-cho, Kasugai, Aichi, 487-0013 Japan
Telephone No.	+81-568-51-2516
Contact Department	Quality Assurance Department
Contact	Masahiro Nakamura
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Mail address	nakamura@fuji-silysia.co.jp

Recommended use and restriction of use

Recommended use

Anti-corrosive pigment

Lmitation of usage

2. Hazards identification

GHS classification

Physicochemical hazards

Flammable solids	not classified
Pyrophoric solids	not classified
Self-heating substances and mixtures	not classified
Substances and mixtures which, in contact with water, emit flammable gases.	not classified

Oxidizing solids	not classified
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Health hazards	Acute toxicity -oral	not classified
	Acute toxicity -dermal	not classified
	Acute toxicity -inhalation :dust	classification not possible
	Acute toxicity -inhalation : mist	classification not possible

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Skin corrosive / irritation	category 2
Eye damage / irritation	category 1
Sensitization-respiratory	classification not possible
Sensitization-skin	classification not possible
Germ cell mutagenicity	not classified
Carcinogenicity	not classified
Toxic to reproduction	classification not possible
Specific target organ systemic toxicity (single exposure)	category 1(respiratory system)
Specific target organ systemic toxicity (repeated exposure)	category 2(lung)

Environmental hazards

Label elements

Pictogram or symbol



Signal Word

Danger

Hazard statement

Causes skin irritation

Causes serious eye damage

Causes respiratory damage

May cause damage to lung through prolonged
or repeated exposure

Precautionary statement

【Precaution】

Wear protective gloves.

Wash hands thoroughly after handling.

Wear eye/face protection.

Do not eat, drink or smoke when using this product.

Do not breathe dust.

【Correspondence】

If on skin : Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse.

If skin irritation occurs, get medical advice/attention.

If in eyes :

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

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If eye irritation persists, get medical advice/attention.

If exposed : Call apoison centre or doctor/physician.

Get medical advice/attention if you feel unwell.

【Storage】

Store locked up.

【Disposal】

Dispose of contents/container in accordance with local/regional/
national regulation.

Country / area information

3. Composition / Information on Ingredients

Chemical characterization	Mixture	
Chemical name or generic name	Amorphous silicon dioxide	Calcium hydroxide
Alias	Silica gel	Slaked lime
Chemical formula	SiO ₂	Ca(OH) ₂
CAS registered No.	7631-86-9	1305-62-0
Official gazette No.	(1)-548	(1)-181
A purity or a range	88~90%	10~12%

4. First Aid Measure

IF INHALED	Remove to fresh air and keep at rest in a position comfortable for breathing.. Get medical advice/attention if you feel unwell.
IF ON SKIN	Wash exposed area with plenty of water and soap. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician.
IF SWALLOWED	Linse mouth with clean water well. Get medical advice/attention if you feel unwell.

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5. Fire Fighting Measure

Extinguish	Use extinguish agents appropriate for surrounding fire.
Special hazards	
Special fire extinguishing method	
Protection of a person to extinguish a fire	Wear appropriate respiratory protection or chemical protective clothing for surrounding fire.

6. Accidental Release Measure

Instructions for the human body, Protective equipment and emergency step	Immediately isolate hazard area and deny entry to unnecessary personnel. Wear appropriate protection to avoid contact/inhalation to eyes and skin. (ref. " 8. Exposure Control/ Personal Protection ")
Instructions for the environment	Do not discharge it to environment.
Collection, neutralization	Vacuum spillage and into an empty container and dispose them later as an industrial waste.
Preventive measures against second disaster	Residue on the floor may cause slip, clean up diligently.

7. Handling and Storage

Handling	
Technical measures	Do the equipment measures in the " 8. Exposure Control/ Personal Protection ", and wear the protection.
Local / general ventilation	Do the local and general ventilation in the " 8. Exposure Control/ Personal Protection ".
Safe handling instructions	Take precautionary measures against static discharge. Do not contact, inhale or swallow. Perform ventilation for exhaust to keep the atmospheric concentration lower than exposure limit. Wash thoroughly after handling.
Contact evasion	Refer to the " 10. Stability and reactivity ".

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Storage

Technical Measures	Instal lighting and ventilation to store and handle.
Composite hazard substance	Refer to the "10. Stability and reactivity".
Storage condition	Store in a cool/well-ventilated place to protect from sunlight and rainwater. Store locked up.
Container and packaging materials	Store it in tightly closed container which is not breakable.

8. Exposure Control/ Personal Protection

Standard control concentration No setting

Permissible concentration:

(an exposure limit value/ a biological exposure index)

Japan industrial hygiene society (2008)

	Amorphous silicon dioxide	Calcium hydroxide
Total dust	8 mg/m ³	4 mg/m ³
Inhalation-related dust	2 mg/m ³	1 mg/m ³
ACGIH(2009)		
TLX-TWA	No setting	5 mg/m ³

Equipment measure	Install washing eyes device in a workplace to store this material or handle it. Install a ventilating device to keep an air pollutant less than permissible concentration when dust occurs by a process.
Protective equipment	
Protection for respiratory	Wear appropriate respiratory protection.
Protection for hands	Wear appropriate protective gloves.
Protection for eyes	Use eye protection .
Protection for skin and body	Use the appropriate protection suit and mask.
Hygiene measure	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

9. Physical and Chemical Properties

Physical State/Shape/Color...	Free flow white powder
Odor	Odorless
pH	9.0 ~ 9.6 (5% slurry)
Melting Point	No data
Boiling Point	No data

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Flash point	Not flammable
Pyrophoric temperature	Not flammable
Explosion range	Not flammable
Vapor Pressure	No data
[Conversion value 1333Pa(1732 °C)]	
Vapor Density (Air =1)	No data
Specific Gravity	1.8
Solubility	No data
Octanol / water distributed coefficient	No data
Decomposition temperature	No data

10. Stability and Reactivity

Stability	Calcium hydroxide : Readily absorbs carbon dioxide from air forming calcium carbonate.
Hazard reaction possibility	Silicon dioxide : On reacting with hydrogen fluoride, forms silicon fluoride(gas).
Condition to avoid	Contact with composite hazard substance
Composite hazard substance	Hydrogen fluoride
Hazard resolution substance	Non

11. Toxicological Information

Acute Toxicity	
Oral	LD ₅₀ value of ingestion administration test(rat) in IUCLID : Silicon dioxide is >5,000mg/kg. Calcium hydroxide is 7,340mg/kg.
Dermal	LD ₅₀ value of skin administration test (rabit) in IUCLID : Silicon dioxide is > 5,000mg/kg. Calcium hydroxide : No information available
Skin corrosion / irritation	Rabit test in IUCLID : Silicon dioxide does not cause irritation. Calcium hydroxide does not cause irritation. In MSDS of calcium hydroxide : Calcium hydroxide may cause skin irritation/inflammation.
Serious eye damage / irritation	Human test in IUCLID : Silicon dioxide causes slight irritation. Rabit test in IUCLID : Calcium hydroxide : corrosive

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Respiratory / skin sensitizer	Not Available
Germ cell mutagenicity	In vivo marrow micronucleus test(mouse) Silicon dioxide : negative Calcium hydroxide : No information available
Carcinogenicity	IARC category Silicon dioxide : category 3 Calcium hydroxide : No information available
Toxic to reproduction toxicity	Not Available
Specific target organ systemic toxicity (single exposure)	In MSDS of calcium hydroxide : Calcium hydroxide : Category 1(respiratory system) Silicon dioxide : No information available
Specific target organ systemic toxicity (repeated exposure)	In MSDS of calcium hydroxide : Calcium hydroxide : Category 2(lung) Silicon dioxide : No information available

12. Environmental influence information

Hazardous to the aquatic environment- acute hazard	Not available
Hazardous to the aquatic environment- chronic hazard2	Not available

13. Disposal Considerations

Leftover waste	The disposal of the leftover waste has to be carried out in accordance with the legal requirements.
A pollution container and packing	Clean a container and recycle it, or appropriate disposal must be made according to official regulations. When an empty container is disposed, completely remove contents.

14. Transportation Information

International regulation	
Marine regulation information	Non-hazardous material
Air regulation information	Non-hazardous material

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Special safety measures

On the occasion of the transportation, load it to avoid direct rays of the sun, the damage of a container, corrosion and leaking and be surely prevention of collapse of cargo. Do not pile the heavy goods up on the top.

15. Regulatory Information

16. Other Information

Fuji Silysia Chemical Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

References

IUCLID (2000)

IARC (2006)

Industrial hygiene society advice (2008)

ACGIH-TLV (2009)

A disaster example

No information

Prepared by : Quality Assurance Department

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