

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-001-003-E

First edition : Dec 5, 2011

1. The Chemical Substance and Company Information

Names of chemical substance

Product name	SYLOMASK
Grade	52M
Company's name	Fuji Silysia Chemical Ltd.
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Contact Department	Quality Assurance Department
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Recommended use and restriction of use

Recommended use

Anti-corrosive pigment

Limitation 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

Health hazards

Carcinogenicity	not classified
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Environmental hazards

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3. Composition / Information on Ingredients

Chemical characterization	Mixture	
Chemical name or generic name	Amorphous silicon dioxide	Magnesium hydroxide
Alias	Silica gel	
Chemical formula	SiO ₂	Mg(OH) ₂
CAS registered No.	7631-86-9	1309-42-8
A purity or a range	85~87%	13~15%

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	Vomit up and linse mouth with clean water well. Get medical advice/attention if you feel unwell.

5.Fire Fighting Measure

Extinguish	This material is not combustible.
Special hazards	Use extinguish agents appropriate for surrounding fire.
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	Large spill : Immediately isolate hazard area and deny entry to unnecessary person Wear appropriate protection to avoid contact/inhalation to eyes and skin. (ref. “ 8. Exposure Control/ Personal Protection “)

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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 ".

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

Permissible concentration:

(an exposure limit value/ a biological exposure index)

ACGIH(2009)

TLX-TWA

Not listed

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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...	Solid, Powder , White
Odor	Odorless
pH	8.5 ~ 9.5 (5% slurry)
Melting Point	No data
Boiling Point	No data
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	True specific gravity 2.3
Solubility	Insoluble in water
Octanol / water distributed coefficient	No data
Decomposition temperature	No data

10. Stability and Reactivity

Stability	Stable under ordinary conditions of use(ambient temperature)
Hazard reaction possibility	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	None

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11. Toxicological Information

Acute Toxicity

Oral

Silicon dioxide : Rat LD50 > 5000mg/kg IUCLID(2000)

Dermal

Silicon dioxide : Rabbit LD50 > 5000mg/kg IUCLID(2000)

Skin corrosion / irritation

Silicon dioxide : Rabbit not irritating IUCLID(2000)

Serious eye damage /
irritation

Silicon dioxide : Human slightly irritating IUCLID(2000)

Magnesium hydroxide : Rabbit moderately irritating IUCLID(2000)

Respiratory / skin sensitizer

Not available

Germ cell mutagenicity

Silicon dioxide : Negative in vivo micronucleus test using bone marrow of mice (JJFC2003)

Carcinogenicity

Silicon dioxide : Group 3 IARC(2006)

Magnesium hydroxide : Classification not possible

Toxic to reproduction toxicity

Not available

Specific target organ systemic toxicity
(single exposure)

Not available

Specific target organ systemic toxicity
(repeated exposure)

Not 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

Not applicable

Air regulation information

Not applicable

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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)

NITE CHRIP data base

ACGIH-TLV (2009)

GHS Classification Guidance of Enterprises(March, 2009)

JJFC Vol.10(3) 2003

A disaster example

No information

Prepared by : Quality Assurance Department

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