

TELEPHONE
+81-568-51-2511

FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

MATERIAL SAFETY DATA SHEET

No. SG - 001 - 100 - E

4th Edition : October 9, 2012

First edition : July 15, 2002

1. The Chemical Substance and Company Information

Names of chemical substance

Product name	FUJI SILICA GEL
Grade	A type, B type, N type, RD type, ID type, PA type
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	Minoru Terajima
Urgent Telephone No.	+81-568-51-2511
Fax No.	+81-568-51-8557
Mail address	QAG@fuji-silysia.co.jp

Recommended use and restriction of use

Recommended use

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

Acute toxicity -oral	not classified
Acute toxicity -dermal	not classified
Skin corrosive / irritation	not classified
Germ cell mutagenicity	not classified
Carcinogenicity	not classified

TELEPHONE
+81-568-51-2511

FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

Environmental hazards

The items without description are out of classification or cannot be classified.

3. Composition / Information on Ingredients

Chemical characterization	Single substance
Chemical name or generic name	Amorphous silicon dioxide
Alias	Silica gel
Chemical formula	SiO ₂
CAS registered No.	7 6 3 1 - 8 6 - 9
Official gazette No.	(1)-548
A purity or a range	100% (dry base)

4. First Aid Measure

IF INHALED

Not specific first-aid is necessary.

Get medical advice/attention if you feel unwell.

IF ON SKIN

Not specific first-aid is necessary.

If skin irritation or rash occurs, get medical advice/attention.

IF IN EYES

Do not rub eyes.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists, get medical advice/attention.

IF SWALLOWED

Vomit up and rinse mouth with clean water well.

Get medical advice/attention if you feel unwell.

5. Fire Fighting Measure

Extinguish

This material is not combustible.

Use extinguish agents appropriate for surrounding fire.

Special hazards

Special fire extinguishing method

Protection of a person to extinguish

a fire

Wear respiratory protection or chemical protective clothing for surrounding fire.

TELEPHONE
+81-568-51-2511

FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

6. Accidental Release Measure

Instructions for the human body,

Protective equipment and emergency step

Large spill :

Isolate hazard area and deny entry to unnecessary personel.

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 “.

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.

Container and packaging materials

Store it in tightly closed container which is not breakable.

TELEPHONE
+81-568-51-2511

FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

8. Exposure Control/ Personal Protection

Permissible concentration :

(an exposure limit value/ a biological exposure index)

	ACGIH(2009)	TLV-TWA	Not listed
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 personal eye protection .	
Protection for skin and body		Use the appropriate protection suit and mask..	
Hygiene measure		Wash hands thoroughly after handling.	

9. Physical and Chemical Properties

Physical state/Shape/Color...	Solid, Granular or spherical, White
Odor	Odorless
pH	4 ~ 8 (5% slurry)
Melting point	1610
Boiling point	2230
Flash point	Non-flammable
Pyrophoric temperature	Non-flammable
Explosion range	None
Vapor pressure	10mmHg (1732)
[Conversion value 1333Pa(1732)]	
Vapor density (Air =1)	Not available
Specific gravity	True specific gravity 2.2
Solubility	Insoluble in water
Octanol / water distributed coefficient	Not available
Decomposition temperature	Not available

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).

TELEPHONE
+81-568-51-2511

FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

Condition to avoid	Contact with composite hazard substance
Composite hazard substance	Hydrogen fluoride
Hazard resolution substance	None

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)

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)

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.

TELEPHONE
+81-568-51-2511

FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

14. Transportation Information

International regulation

Marine regulation information Non-hazardous material

Air regulation information Non-hazardous material

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)

ACGIH-TLV (2009)

NITE CHRIP data base

GHS Classification Guidance of Enterprises(March, 2009)

Ministry of Economy, Trade and Industry

JJFC Vol.10(3) 2003

A disaster example

No information available

Prepared by : Quality Assurance Department

Phone Number : + 8 1 - 5 6 8 - 5 1 - 2 5 1 1