

TELEPHONE
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FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

MATERIAL SAFETY DATA SHEET

No. CA-001-300-E

Revised date : June 10, 2010

First edition : July 15, 2002

1. The Chemical Substance and Company Information

Names of chemical substance	CARiACT
Product name	G Series (G-3 / G-6 / G-10)
Company's name	Fuji Silysia Chemical Ltd.
Address	2-1846 Kozoji-cho, Kasugai, Aichi, 487-0013 Japan
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Contact Department	Quality Assurance Department
Contact	Masahiro Nakamura
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Recommended use and restriction of use

Recommended use	Catalyst carrier
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
Acute toxicity -inhalation : dust	classification not possible
Acute toxicity -inhalation : mist	classification not possible
Skin corrosive / irritation	not classified
Eye damage / irritation	category 2B
Sensitization-respiratory	classification not possible

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	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)	classification not possible
	Specific target organ systemic toxicity (repeated exposure)	classification not possible
Environmental hazards	Aspiration toxicity	classification not possible
	Hazardous to the aquatic environment- acute hazard	classification not possible
	Hazardous to the aquatic environment- chronic hazard ²	classification not possible

Label elements

Pictogram or symbol	Non
Signal Word	Warning
Hazard statement	Cause eye irritation
Precautionary statement	

【Precaution】

【Correspondence】

If in 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.

Wash hands thoroughly after handling.

【Storage】

【Disposal】

Country / area information

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3. Composition / Information on Ingredients

Chemical characterization	Single substance
Chemical name or generic name	Amorphous silico dioxide
Alias	Silica Gel
Chemical formula	SiO ₂
CAS registered No.	7631-86-9
Official gazette No.	(1)-548
A purity or a range	100% (dry base)

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 water.
	Wash contaminated clothing before reuse.
	If skin irritation or redness 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 line 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.

6. Accidental Release Measure

Instructions for the human body,	
Protective equipment and emergency step	Large spill :
	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 “)

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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.

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)

ACGIH(2009)

TLV-TWA

No setting

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.

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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...	Soid / Powder~Particle / White
Odor	Odorless
pH	3.0 ~ 8.5 (5% slurry)
Melting Point	1610°C
Boiling Point	2230°C
Flash point	Non-flammable
Pyrophoric temperature	Non-flammable
Explosion range	Non-flammable
Vapor Pressure	10mmHg(at 1732°C)
[Conversion value 1333Pa(1732 °C)]	
Vapor Density (Air =1)	No data
Specific Gravity	True Specific Gravity 2.2
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	Non

11. Toxicological Information

Acute Toxicity	
Oral	Silicon dioxide : Rat LD50=7800mg/kg(average) 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)

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Carcinogenivity 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.

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.

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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

Prepared by : Quality Assurance Department

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