TELEPHONE +81-568-51-2516 FUJI SILYSIA CHEMICAL LTD. 2-1846 KOZOJI-CHO, KASUGAL AICHI, 487-0013 JAPAN

FAX NO. +81-568-51-8557

MATERIAL SAFETY DATA SHEET

No. CA-001-100-E

Revised date : June 9, 2010 First edition : July 15, 2002

1. The Chemical Substance and Company Information

Names of chemical substance	CARiACT
Product name	Q Series
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
Urgent Telephone No.	+81-568-51-2511
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Mail address	nakamura@fuji-silysia.co.jp

Recommended use and restriction of use

Recommended use

Catalyst carrier

Lmitation of usage

2. Hazards identification

GHS classification

Physicochemical hazards

	Flammable solids	not classified
	Pyrophoric solids	not classified
	Self-heating substances and mixtues	not classified
	Substances and mixtures which, in	
	contact with water ,emitflammable	not classified
	gases	
	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

-568-51-2516	I SILYSIA CHEMICAL LT 16 kozoji-cho, kasugai, aichi, 487-0013 japa	+81-568-51-8557
	Sensitization-skin	classification not possible
	Germ cell mutagenicity	not classified
	Carcinogenicity	not classified
	Toxic to reproduction	classification not possible
	Specific target organ systemic toxicity	classification not possible
	(single exposure)	
	Specific target organ systemic toxicity	classification not possible
	(repeated exposure)	
	Aspiration toxicity	classification not possible
Environmental hazards	3	
	Hazardous to the aquatic environment- acute hazard	classification not possible
	Hazardous to the aquatic environment- chronic hazard2	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

TELEPHONE +81-568-51-2516 FUJI SILYSIA CHEMICAL LTD. FAX NO. +81-568-51-8557 2-1846 когојі-сно, казидаї, аісні, 487-0013 јарам FAX NO. +81-568-51-8557			
3. Composition / Information on Ingr	edients		
Chemical characterization	Single substance		
Chemical name or generic nar	-		
Alias	Silica Gel		
Chemical formula	SiO_2		
CAS registered No.	7631-86-9		
Official gazette No.	(1)-548		
A purity or a range	100%		
4. First Aid Measure			
IF INHALED	No emergency care is anticipated.		
	Get medical advice/attention if you feel unwell.		
IF ON SKIN	No emergency care is anticipated.		
	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 linse 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	1		
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			
Isolate hazard area and deny entry to unnecessary personel.			
Weat	r appropriate protection to avoid contact/inhalation to eyes and		
skin.			
(ref. "8. Exposure Control/Personal Protection")			
Instructions for the environment			
Do n	ot discharge it to environment.		

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Collection, neutralization			
۷a as Preventive measures against sec	cuum spillage and into an empty container and dispose them later an industrial waste. ond disaster sidue 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/ rsonal Protection ", and wear the protection.		
Local / general ventilation			
	the local and general ventilation in the		
	8.Exposure Control/Personal Protection ".		
Safe handling instructions			
	ke precautionary measures against static discharge.		
	not contact, inhale or swallow.		
	rform ventilation for exhaust to keep the atmospheric		
	ncentration lower than exposure limit.		
	ash thoroughlyafter handling.		
	fer to the "10. Stability and reactivity ".		
Storage	· · ·		
Technical Measures	Instal lighting and ventilation to store and handle.		
Composite hazard substance	e 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 m	aterials		
	Store it in tightly closed container which is not breakable.		
8. Exposure Control/ Personal Prot	ection		
Standard control concentra	tion No setting		
Permissible concentration:			
_	biological exposure index)		
ACGIH(2009			
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.		

FAX NO. +81-568-51-8557

FUJI SILYSIA CHEMICAL LTD.

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

Protection for eyes	Use personal eye protection .
Protection for skin and body	Use the apropriate protection suit and mask
Hygiene measure	Wash hands thoroughly after handling.

9. Physical and Chemical Properties

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Physical State/Shape/Color	Soid / Spherical particle / Colorless \sim white
Odor	Odorless
pH	$3.5\sim 8.0$ (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 coeffic	cient 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 /	Silicon dioxide : Human slightly irritating IUCLID(2000)
irritation	
Respiratory / skin sensitizer	Not Available
Germ cell mutagenicity	Silicon dioxide : Negative in vivo micronucleus test using bone marrow of mice (JJFC2003)
Carcinogenivity	Silicon dioxide : Group 3 IARC(2006)



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. TELEPHONE +81-568-51-2516

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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

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