

TELEPHONE  
+81-568-51-2511

# FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.  
+81-568-51-8557

## SAFETY DATA SHEET

No.CRX-011-000-E

Revised 4th edition : January 20, 2016

First edition : July 9, 2010

### 1.The Chemical Substance and Company Information

Names of chemical substance

Product name	CHROMATOREX
Grade	CN Series
Company's name	Fuji Silysia Chemical Ltd.
Address	2-1846 Kozoji-cho, Kasugai, Aichi, 487-0013 Japan
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Recommended use and restriction of use

Recommended use

Chromatography

Restriction of use

### 2.Hazards identification

GHS classification

Physicochemical hazards

Flammable solids	out of classification
Pyrophoric solids	out of classification
Self-heating substances and mixtures	out of classification
Health hazards	
Substances and mixtures which, in contact with water, emitflammable gases	out of classification
Oxidizing solids	out of classification

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

### 3. Composition / Information on Ingredients

Chemical Substance or Mixture	Chemical substance
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Chemical name or generic name	Silica gel, reaction product with cianopropylsilane
Alias	-
Chemical formula	SiO-[Si(CH <sub>3</sub> ) <sub>2</sub> (CH <sub>2</sub> ) <sub>3</sub> CN]
CAS registered No.	-
Official gazette No.	Out of scope(combination of existing chemicals)
Chemical Labour	Low volume New Chemical Substances
A purity or a range	100%

#### 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 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 media	This material is not combustible. Use extinguish agents appropriate for surrounding fire.
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: Immediately isolate hazard area and deny entry to unnecessary personnel.

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Wear an appropriate protection and to avoid contact or inhalation to eyes and skin.

( ref. “ 8. Exposure Control/ Personal Protection “ )

Instructions for the environment Do not discharge it to environment.

Collection, neutralization Collect 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	Install 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

Permissible concentration No setting  
( an exposure limit value/ a biological exposure index )

Japan Society of Occupational Health(2015) The 3rd dust(Lime or other inorganic or organic)

Total dust	8 mg/m <sup>3</sup>
Inhalation-related dust	2 mg/m <sup>3</sup>

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ACGIH(2013)

TLV-TWA

Particles(insoluble or poorly soluble )

Respirable particles :3mg/m<sup>3</sup>

Inhalable particles : 10mg/m<sup>3</sup>

(Silica ,amorphous withdrawn in 2006.)

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 in 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, Fine particle, White

Odor

Odorless

pH

5 ~ 9 (5% slurry, mixture of water and ethanol)

Melting Point

No data

Boiling Point

No data

Flash point

> 240°C

Pyrophoric temperature

No data

Explosion range

No data

Vapor Pressure

No data

Vapor Density (Air =1)

No data

Specific Gravity

True specific gravity 2.2.The bulk density may vary depends on grades and packagings.

Solubility

No data

Octanol /water

No data

partition coefficient

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). Dissolved in strong bases.

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Condition to avoid	Contact with composite hazard substance
Composite hazard substance	Hydrogen fluoride, strong base
Hazard resolution substance	No information

### 11. Toxicological Information

Acute Toxicity	No data
Skin corrosion / irritation	No data
Eye damage / irritation	No data
Sensitization	
respiratory/skin	No data
Germ cell mutagenicity	Negative: Reverse mutation test by Escherichia coli and Salmonella typhimurium
Carcinogenicity	Not classified in the list of 1st or 2nd substances by Japan Society of Occupational Health
Toxic to reproduction toxicity	No data
Specific target organ systemic toxicity ( single exposure )	No data
Specific target organ systemic toxicity ( repeated exposure )	No data

### 12. Environmental influence information

Hazardous to the aquatic environment-acute hazard	No data
Hazardous to the aquatic environment- chronic hazard <sup>2</sup>	No data
Persistence/Decomposition	No data
Bioaccumulation	No data
Migration in the soil	No data
Hazardous to the Ozone Layer	Not contains any substances listed by Montreal Protocol

### 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 the appropriate disposal must be made according to official regulations. When an empty container is disposed, remove contents completely.

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### 14. Transportation Information

#### International regulation

UN number :	Not applicable
UN name for transportation :	Not applicable
UN Classification :	Not applicable
Marine regulatory information	Non- hazardous chemical
Air regulatory information	Non-hazardous chemical
Land regulatory information	Non-hazardous chemical

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

Labour Law for Safety &Health of Japan	Not applicable
Pollutant Release and Transfer Register Law	Not applicable
Poisonous and Deleterious Substances Control Law	Not applicable

### 16. Other Information

Export Control Act of Japan            Appendix 1 Item 16 Part 6 Group 38 Various Industrial Products  
Applicable for "Catch-All" restriction

#### References

Chemical Handbook Basic  
 IUCLID Dataset ( 2000 )  
 FAO/WHO Toxicological Evaluation of Certain Food Additives With a Review of  
 General Principles and Specifications  
 OECD SIDS Profile for Initial Evaluations  
 JJFC Vol.10(3) 2003  
 IARC "Agents Classified by the IARC Monographs" (October 2013 )  
 Recommendation by Japan Society of Occupational Health(2015)  
 JIS Z 7252 :2014 JIS Z 7253 :2012  
 2013 TLVs and BELs(ACGIH)  
 NITE CHRIP Data Base  
 GHS Classification Guidance of Enterprises  
 by Ministry of Economy, Trade and Industry of Japan (Rev.ver.1.1,2013)

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### A disaster example

No information available

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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