

TELEPHONE
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FUJI SILYSIA CHEMICAL LTD.

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

FAX NO.
+81-568-51-8557

SAFETY DATA SHEET

No.CRX-009-000-E

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First edition : July 9, 2010

1.The Chemical Substance and Company Information

Names of chemical substance

Product name	CHROMATOREX
Grade	DNH Series
Company's name	Fuji Silysia Chemical Ltd.
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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, out of classification

emitflammable gases

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 N-(3-silylpropyl)ethane-1,2-diamine
Alias	-
Chemical formula	SiO-[Si(OH) ₂ (CH ₂) ₃ NH(CH ₂) ₂ NH ₂]
CAS registered No.	-
Official gazette No. Chemical Labour	Out of scope(combination of existing chemicals) 12-1081
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.
IF ON SKIN	Get medical advice/attention if you feel unwell. Wash exposed area with water. Wash contaminated clothing before reuse.
IF IN EYES	If skin irritation or rash occurs, get medical advice/attention Do not rub eyes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED	If eye irritation persists, get medical advice / attention. 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/m³

Inhalation-related dust 2 mg/m³

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ACGIH(2013)

TLV-TWA

Particles(insoluble or poorly soluble)

Respirable particles :3mg/m³

Inhalable particles : 10mg/m³

(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

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). 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 ²	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)
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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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