

Material Safety Data Sheet

DS-CERIX5

1. PRODUCT/COMPANY IDENTIFICATION

Product Name	: DS-CERIX5
Common chemical name	: CERAMIDE NP(CERAMIDE 3), Caprylic/Capric Triglyceride,
INCI Name	Cholesterol, Hydrogenated Lecithin, Phytosphingosine, Stearic Acid, Oleic Acid, Lactic Acid, Aqua, Caprylyl Glycol (and) Caprylhydroxamic Acid (and) Glycerin
REACH Status	: Exempted
Supplier	: Doosan Corporation Advanced Institutes of Convergence Technology, 864-1, Iui-Dong, Yeongtong-Gu, Suwon, Gyeonggi-Do, 443-270, Korea TEL. +82-31-888-9928/ FAX. +82-31-888-9800

2. COMPOSITION/INFORMATION ON INGREDIENTS

Single or Mixture	: Sphingolipids Mixture
Ingredient	: Active ingredient for cosmetic and cosmeceutical formula
INCI Name	: CERAMIDE NP (CERAMIDE 3) [100403-19-8/309-560-3]
[CAS No. / EINECS No.]	Caprylic/Capric Triglyceride [None/ None] Cholesterol [57-88-5/ 200-353-2] Hydrogenated Lecithin [92128-87-5/295-786-7] Phytosphingosine [554-62-1/ None] Stearic Acid [57-11-4/ 200-313-4], Oleic acid [112-80-1/204-007- 1] Lactic acid [50-21-5/ 200-018-0], Aqua [7732-18-5/ 231-791-2] Caprylyl Glycol [1117-86-8/ 214-254-7] Caprylohydroxamic Acid [7377-03-9/ None] Glycerin [56-81-5/ 200-289-5]

3. HAZARD IDENTIFICATION

Physical/chemical hazards	: Not dangerous according to the EC regulations
Environmental hazards	: The data available do not support any environmental hazard
Human health hazards	: The data available do not support any adverse human health hazard

4. FIRST AID MEASURES

First Aid and Emergency Procedures

- After inhalation : Ensure supply of fresh air.
- After contact with skin : In case of contact with skin wash off immediately
with soap and water
- After contact with eyes : Flush eye immediately and thoroughly whilst protecting the
unhurt eye. If irritation continues, consult a physician.
- After ingestion : In the event of symptoms seek medical advice.

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5. FIRE FIGHTING MEASURES

Suitable extinguishing media	: foam, carbon dioxide, dry powder, water spray
Extinguishing media which must not be used for safety reasons	: not applicable
Special hazards from the substance itself, its combustion products or from its vapors	: In the event of fire the following can be released: - carbon dioxide, carbon monoxide - Nitrogen oxides (NOx)
Special hazards from the substance itself, its combustion products or from its vapors	: Use self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use personal protective equipment.
Environmental precautions	: Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.
Methods for cleaning up	: Pick up mechanically Dispose of absorbed material in accordance with the regulations.

7. HANDLING AND STORAGE

Handling	
Advice on safe handling	: No special measures necessary if stored and handled as prescribed.
Advice on protection against fire and explosion	: No special measures required.
Storage	
Requirements for storage areas and containers	: Use polyethylene containers.
Further information	: Keep container tightly closed in a cool, well-ventilated place Protect from sun. Storage temperature should not exceed 30 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment	
Hygiene measures	: Do not eat, drink or smoke when working. Wash hands before breaks and after work.
Respiratory protection	: None required
Hand protection	: Rubber gloves
Eye protection	: goggles with side pieces
Skin and body protection	: light protective clothing

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Emulsified cream
Color	: White to off-white
Odor	: Characteristic odor
Melting temperature	: not measured.
Boiling temperature	: 138℃
Flash point	: not applicable
Ignition temperature	: not measured.
Autoignition emperature	: not measured.
Lower explosion limit	: not measured.
Upper explosion limit	: not measured.
Vapour pressure	: not measured.
Density	: not measured.
Water solubility	: insoluble
pH	: 3.5 ± 0.5
Viscosity, dynamic	: not measured.

10. STABILITY AND REACTIVITY

Thermal decomposition	: Not measured
Hazardous reactions	: No hazardous reactions with proper storage and handling.
Hazardous decomposition products	: None with proper storage and handling.

11. TOXICOLOGYCAL INFORMATION

Proper use provided, no adverse health effects have been observed or have been come to our knowledge.

12. ECOLOGICAL INFORMATION

Material is not known to cause significant adverse environmental impact.
Do not allow to enter soil, waterways or waste water canal.

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13. DISPOSAL CONSIDERATION

Product	: In accordance with local authority regulations, take to special waste incineration plant
Contaminated packaging	: If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

This product is not classified according to DOT

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

This product is not classified according to IMDG

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)/ REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS BY RAIL (RID)

This product is not classified according to ADR/RID

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

This product is not classified according to ICAO/IATA

15. REGULATORY INFORMATION

EC Regulation (67/548/EEC-88/379/EEC)	: This product does not have to be classified according to the EC regulations
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National regulations	: No additional national regulations are available/required
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16. OTHER INFORMATION

Sources of Information	: Company laboratory : KOSHA (Korea Occupational Safety and Health Agency)
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Date issued	: 11/ July/ 2014
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This information is based on knowledge available until present. More detailed information on the physical and chemical properties can be requested from the supplier. To the best of our knowledge, the information contained herein is accurate and complete. However nothing herein contained shall be construed to imply any warranty or guarantee.