

FSS Ceramide Complex
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Date: 07 / 09 / 2025

Version: 4

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SECTION 1. IDENTIFICATION

| | |
|------------------------------------|---|
| Product Name/Identifier | FSS Ceramide Complex |
| Product Code | FSSB4005 |
| Recommended Use | Ingredients/Raw materials used in the manufacturing of Cosmetic Products' |
| Restrictions on Use | None |
| Supplier/Manufacturing Site | Formulator Sample Shop |
| Address | 135 Joshua Court Lincolnton, NC 28092 |
| Telephone No. (24hrs) | 1-704-276-7540 |
| Emergency Telephone # | 1-704-276-7540 (Mon-Fri: 8:00AM – 5:00PM EST) |

SECTION 2. HAZARD(S) IDENTIFICATION

Classification:

GHS / CLP

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe

Basis for Classification:

- According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.
- This product is not classified as hazardous to health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol expected

Hazard statements/Signal Word: Not applicable

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Precautionary statements:

P233: Keep container tightly closed
 P281: Use personal protective equipment as required
 P404: Store in a closed container
 P410: Protect from sunlight
 P411: Store in refrigerator.

Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hygroscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal Material

Flammability: Rating 0, Will Not Burn

Reactivity: Rating 0, Stable

Other Hazard Information: None

Results of PBT and vPvB assessment:

-PBT: Not applicable

-vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS
Common Chemical Name:

Water & Sodium Lauroyl Lactylate & Phenoxyethanol & Ceramide NP & Ceramide AP & Phytosphingosine & Cholesterol & Ethylhexylglycerin & Carbomer & Xanthan Gum & Ceramide EOP

Chemical Family: Complex

Description: Mixture: consisting of the following components. This section describes all components of the mixture

| <u>Substance</u> | <u>Percentage</u> |
|--------------------------|-------------------|
| Water | 83 – 86% |
| Sodium Lauroyl Lactylate | 9 - 11% |
| Phenoxyethanol | 0.9 – 1.0% |
| Ceramide NP | 1.0 – 1.2% |
| Ceramide AP | 0.5 - 0.6% |
| Phytosphingosine | 0.5 - 0.6% |
| Cholesterol | 0.5 – 0.6% |
| Ethylhexylglycerin | 0.3 – 0.4% |
| Carbomer | 0.2 - 0.4% |
| Xanthan Gum | 0.2 – 0.5% |
| Ceramide EOP | 0.001 – 0.002% |

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Formula: Not applicable

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

Skin contact: Rinse with soap and water. Get medical advice if irritation develops.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.

Ingestion: Consult with a physician.

Protection of first-aiders: No special protection required.

SECTION 5. FIRE-FIGHTING MEASURES

Fire and explosion hazards: Not considered to be a fire and explosion hazard

Extinguishing media:

Suitable: Water, dry chemicals, foam and carbon dioxide

Not suitable: None known

Fire fighting: Move container from fire area if it can be done without risk.
Avoid inhalation of material or combustion by-products.
Stay upwind and keep out of low area

Protection for fire-fighters: Boots, gloves, goggles.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes.

Personal Protective Equipment:
-Protective goggles

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| Environmental precautions: | Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system |
| Methods for cleaning up: | |
| Recovery: | Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material. |
| Cleaning/Decontamination: | Wash non-recoverable remainder with water. |
| Disposal: | For disposal of residues refer to sections 8 & 13. |

SECTION 7. HANDLING AND STORAGE
Handling

| | |
|-----------------------|--|
| Technical measures: | Labeling: Keep out of the reach of children. |
| Measures: | For cosmetic and personal care formulations, only as directed. |
| Safe handling advice: | Wash hands after use. Avoid storage near feed or food stuff. |

Storage

| | |
|---------------------------------|--|
| Technical measures: | Keep container closed. |
| Recommended Storage Conditions: | Keep only in unopened original container; clean and dry. For further information, refer to the product technical data sheet. Recommended storage temperature: 8 - 15 °C. |

| | |
|------------------------|--|
| Incompatible products: | Avoid contact with strong oxidizers. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity) |
|------------------------|--|

| | |
|----------------------|---|
| Packaging: | Product may be packaged in normal commercial packaging. |
| Packaging materials: | Recommended - Polypropylene & High Density Polyethylene |

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------------|------------------------------------|
| Precautionary statements: | Ensure adequate ventilation |
| Control parameters | |
| Occupational exposure Limits: | |

| | |
|--------------------------|----------------|
| France: | Not Determined |
| ACGIH: | Not Determined |
| Korea: | Not Determined |
| UK: | Not Determined |
| Surveillance procedures: | Not Determined |
| Engineering measures: | Not Determined |

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Personal Protective Equipment:

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|--------------------------------------|--|
| Respiratory protection: | Local exhaust |
| Hand protection: | Protective gloves made of rubber or neoprene. |
| Eye protection: | Safety glasses. |
| Collective emergency equipment: | Eye fountain. |
| Skin and Body Protection: | Suitable protective clothing |
| Hygiene measures: | Handle in accordance with good industrial hygiene and safety practice. |
| Measures related to the Environment: | No particular measures. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|--|
| Appearance: | Viscous Liquid |
| Color: | Off White |
| Odor: | Characteristic |
| pH (Direct): | 5.0-7.0 |
| Heavy Metals: | < 20 ppm |
| Microbial Content: | < 100 CFU/g No pathogens |
| Specific Gravity: | Not determined |
| Density: | 1.0060 |
| Boiling Point: | 100°C |
| Freezing Point: | 0°C |
| Melting point: | Not applicable |
| Flash point: | > 200°F |
| Oxidizing properties: | Non oxidizing material according to EC criteria. |
| Solubility: | |
| In water: | Soluble |
| In organic solvents: | Not determined |
| Log P: | Not determined |

SECTION 10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable under normal conditions. |
| Hazardous reactions: | None known |
| Conditions to avoid: | No dangerous reactions known under use of normal conditions. Avoid extreme heat. |
| Materials to avoid: | No dangerous reaction known with common products. |
| Hazardous decomposition products: | None known |

SECTION 11. TOXICOLOGICAL INFORMATION

| | |
|-------------------|----------------|
| Ingestion: | Not Determined |
| Dermal: | Not Determined |
| Ocular: | Not Determined |

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| Inhalation: | Not Determined |
| Acute toxicity data: | Not Determined |
| Sensitization: | Non-Primary Sensitizers |
| Repeated dose toxicity: | No known effects |
| Subacute to chronic toxicity: | Not Determined |
| Additional Toxicological Information: | This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. |

Specific effects:

| | |
|------------------------|------------------|
| Carcinogenicity: | No known effects |
| Mutagenicity: | No known effects |
| Reproductive toxicity: | No known effects |
| Neuro-toxicity: | No known effects |

| | |
|------------------------------|---|
| For more information: | Does not present any particular risk on handling under normal conditions of good occupational hygiene practice. |
|------------------------------|---|

SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity

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| Effects on the aquatic environment: | Not Determined |
|-------------------------------------|----------------|

Biodegradability:

| | |
|--------------|----------------|
| Persistence: | Not Determined |
|--------------|----------------|

Bioaccumulation:

| | |
|--|----------------|
| Octanol / water partition coefficient: | Not Determined |
|--|----------------|

Mobility:

| | |
|-----------------------------------|---|
| Precipitation: | |
| Expected behavior of the product: | Ultimate destination of the product: Soil & sediment. |

| | |
|-------------------------------|------------|
| Other Adverse Effects: | None known |
|-------------------------------|------------|

SECTION 13. DISPOSAL CONSIDERATIONS
Residues from product

| | |
|-----------------------|---|
| Prohibition: | Do not allow the product to be released into the Environment. |
| Destruction/Disposal: | Dispose of in accordance with relevant local regulations |

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Contaminated packaging

Decontamination/cleaning: Cleaning is not required prior to disposal.

Destruction/Disposal:

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: None

UN Shipping Name: None

Transport Hazard Class:

Land (rail/road):

Sea:

Air:

Not classified as dangerous for transport

Material is not restrictive for land transport and is not regulated by ADR/RID

Material is not restrictive for sea transport and is not regulated by IMO/IMDG

Material is not restrictive for land transport and is not regulated by ICA/IATA

Marine Pollutant: No

Transport/Additional Information:

Not regulated for US DOT Transport in non-bulk containers

This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling:

EC regulations:

This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations

United Kingdom:

Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental

Hygiene Guidance: EH40

Workplace Exposure Limits (revised annually)

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| Korea regulations: | Industrial safety and hygiene regulation: | No |
| | Hazardous material control regulation: | No |
| | Fire prevention regulation: | No |

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: 07/09/2025

Preparation Date: 02/25/2019

MSDS summary of changes Revision to the INCI in Section 3.

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.