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Date: 10 / 31 / 2025

Version: 3

Cancels and replaces version: 2

SECTION 1. IDENTIFICATION

Product Name/Identifier	Optiphen®
Product Code	FSSB22039
Recommended Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products'
Restrictions on Use	Refer to the detailed list of labeling/restrictions (Section 15 Regulatory Information)
Supplier Site	Formulator Sample Shop
Address	125 Technology Drive Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7540

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC:
+1 703-741-5970 (or) 1-800-424-9300

SECTION 2. HAZARD(S) IDENTIFICATION**GHS Classification:**

Eye Irritation:

Category 2A

GHS Labeling Elements:**Pictogram:**

Hazard statements/Signal Word: H302: WARNING: Harmful if swallowed
H319: WARNING: Causes serious eye irritation

Precautionary statements:

Prevention: P233: Keep container tightly closed
P264: Wash skin thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection

Response: P305 + P338 + P351: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention

Disposal: P501: Dispose of contents/container in accordance with local regulations.

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

Health hazard: Rating 2; Temporary or minor injury may occur

Flammability: Rating 1; Material must be preheated before ignition will occur

Reactivity: Rating 0; Stable

Other Hazard Information: None

Other hazards: None known

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS
Common Chemical Name: Phenoxyethanol & Caprylyl Glycol

Chemical Family: Mixture

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

<u>Hazardous Components</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>	<u>Percentage</u>	<u>Classification</u>
Phenoxyethanol	122-99-6	204-589-7	55.60%	Acute Tox. 4; H302 Eye Irrit. 2A; H319
Caprylyl Glycol	1117-86-8	214-254-7	44.60%	Eye Irrit. 2A; H319

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention. Move to fresh air from exposure area. Show this Safety Data Sheet to the doctor in attendance. Do not leave victim unattended.

Inhalation: Move to fresh air from exposure area. If unconscious, place in a recovery position and seek medical advice. If symptoms persist, call a physician.

Skin contact: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water. Wash contaminated clothing before re-use.

Eye contact: Immediately rinse with plenty of water. Remove contact lenses. Protect unharmed eye.

Ingestion: Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: Stomach or intestinal upset (nausea, vomiting, diarrhea), Irritation (nose, throat, airways), Pain in the abdomen and lower back, Acute kidney failure (sudden slowing or stopping of urine production). Causes serious eye irritation.

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SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing media:**

Suitable: Water spray, foam, dry chemicals, carbon dioxide

Not suitable: High volume water jet

Fire fighting: Product is compatible with standard fire-fighting agents. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off fire fighting to enter drains or water courses

Hazardous combustion products: Carbon dioxide, carbon monoxide

Protection for fire-fighters: Boots, gloves, goggles and self-contained breathing apparatus

Further information: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.
Wear Personal Protective Equipment:
- Protective glasses with side-shields
- Protective gloves
- Suitable protective clothing

Environmental precautions: Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers, lakes or drains inform respective authorities.

Methods for cleaning up:

Recovery: Contain spillage, absorb with non-combustible absorbent material and transfer to a container for disposal according to local/national regulations. Keep in suitable, closed containers for disposal. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Cleaning/Decontamination: Material can create slippery conditions.

Disposal: For disposal of residues refer to sections 8 & 13.

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SECTION 7. HANDLING AND STORAGE

Handling

Technical measures:

Measures:

Safe handling advice:

Labeling: Keep out of the reach of children. Avoid contact with skin and eyes.

Avoid dust formation. Do not breathe vapours/dust.

Wash hands carefully after use. Avoid storage near feed or food stuff. Smoking, eating and drinking should be prohibited in the application area. Container is hazardous when empty. Dispose of rinse water in accordance with local and national regulations.

Storage

Technical measures:

Keep container tightly closed in a well-ventilated place. Recommended storage temperature is 59 - 77°F / 15 - 25°C. Protect from frost.

Containers which are opened must be carefully resealed and kept upright to prevent leakage. No smoking.

Incompatible materials:

Strong acids, bases & oxidizing agents. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements:

Provide adequate exhaust ventilation at place where dust is formed.

Control parameters

Components with workplace occupational exposure limits:

None

Hazardous components without workplace control parameters:

Ingredient	CAS Number
Phenoxyethanol	122-99-6
Caprylyl Glycol	1117-86-8

Engineering measures:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal Protective Equipment:

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination. Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

Hand protection:

Protective gloves (Butyl-rubber break through time 480 min; Thickness > 0.5 mm)

Eye protection:

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

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Personal Protective Equipment (Continued):

Collective emergency equipment:	Eye fountain
Skin and Body Protection:	Wear as appropriate: Safety shoes, dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard globes that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures:	Wash hands before breaks and at the end of the workday. When using do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to Slightly Hazy Liquid
Color:	Colorless to Pale Yellow
Odor:	Characteristic
Specific Gravity:	1.014-1.024
Microbial Content:	<100 CFU/g; No Pathogens
pH:	Not determined
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Density (25°C):	1.0126 – 1.0217 g/cm ³
Relative Vapour Density:	Not determined
Boiling Point:	Not determined
Melting point:	Not determined
Flash point:	127.2 – 127.8°C
Evaporation rate:	Not determined
Solubility:	
In water:	Not determined
In organic solvents:	Not determined
Log P:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	No decomposition if stored and applied as directed.
Stability:	Stable under recommended storage conditions.
Hazardous reactions:	Product will not undergo hazardous polymerization.
Conditions to avoid:	Keep away from excessive heat. Do not allow evaporation to dryness.

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Materials to avoid: Strong acids, bases and oxidizing agents.**Hazardous decomposition products:** Carbon dioxide & carbon monoxide**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Toxicity:	Not classified based on available information
Skin Corrosion/Irritation:	Not classified based on available information REMARK: May cause skin irritation in susceptible persons.
Serious Eye Damage/Eye Irritation:	Causes serious eye irritation REMARK: Vapors may cause irritation to the eyes, respiratory system and skin. Causes serious eye irritation.
Respiratory or Skin Sensitization:	Skin sensitization: Not classified based on available information Respiratory sensitization: Not classified based on available information
Germ Cell Mutagenicity:	Not classified based on available information
Carcinogenicity:	Not classified based on available information
Reproductive Toxicity:	Not classified based on available information
STOT- Single Exposure:	Not classified based on available information
STOT- Repeated Exposure:	Not classified based on available information
Aspiration Toxicity:	Not classified based on available information
Carcinogenicity:	
IARC:	No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA:	No component of this product is present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP:	No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

The following ecotoxicological data refer to:**Phenoxyethanol:****Acute Toxicity:**

Acute Oral Toxicity: > 1,840 mg/kg
LD₅₀ (Rat, OECD Test Guideline 401)

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Acute Inhalation Toxicity: No adverse effect has been observed in acute inhalation toxicity tests.

Acute Dermal Toxicity: > 14,391 mg/kg LD₅₀ (Rat)

Skin Corrosion/Irritation: Non-Irritant (Rabbit)

Serious Eye Damage/Eye Irritation: Irritant (Rabbit)

Respiratory or Skin Sensitization: Non-sensitizing (Guinea pig, OECD Test Guideline 406)

Germ Cell Mutagenicity:

Genotoxicity in vitro: Non-Mutagenic (Salmonella typhimurium, AMES)

Reproductive Toxicity:

Effects on Foetal Development: 300 mg/kg bw/day (Rat, oral, OPPTS 870.3700)

Repeated Dose Toxicity: NOAEL: 369 mg/kg (Rat, oral, OECD Test Guideline 408)

NOAEL: 500 mg/kg (Rabbit, dermal)

The following ecotoxicological data refer to:**Caprylyl Glycol:****Acute Toxicity:**

Acute Oral Toxicity: > 2,000 mg/kg (LD₅₀, Rat, OECD Test Guideline 401)
Assessment: No adverse effect has been observed in acute oral toxicity tests

Acute Inhalation Toxicity: > 7.015 mg/l
LC₅₀ (4hr, dust/mist, OECD Test Guideline 403)
Remark: Information given is based on data obtained from similar substances

Skin Corrosion/Irritation: Non-Irritant (Rabbit)

Serious Eye Damage/Eye Irritation: Irritant

Respiratory or Skin Sensitization: Non-sensitizing (Mouse, OECD Test Guideline 429)

Germ Cell Mutagenicity:

Genotoxicity in vitro: Non-Mutagenic (AMES, OECD Test Guideline 476)

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicology Assessment Short-term (acute) aquatic hazard: Acute aquatic toxicity Category 2 – Toxic to aquatic life

Long-term (chronic) aquatic hazard: Not classified based on available information

Bioaccumulative Potential: Not determined

Mobility in Soil: Not determined

The following ecotoxicological data refer to:

Phenoxyethanol:

Exotoxicity:

 Toxicity to fish: 337 – 352 mg/l
 LC₅₀ (Pimephales promelas (fathead minnow, 96h, flow-through test)

 Toxicity to Daphnia and Other Aquatic Invertebrates: > 500 mg/l
 EC₅₀ (Daphnia magna (Water flea), 48h, OECD Test Guideline 202)

 Toxicity to algae: > 500 mg/l
 NOEC (Desmodesmus subspicatus (green algae), 72h, static test)

 Toxicity to fish (chronic): 23 mg/l
 NOEC (Pimephales promelas (fathead minnow, 34d, flow-through test)

 Toxicity to Daphnia and Other Aquatic Invertebrates (chronic): 9.43 mg/l
 NOEC (Daphnia magna (Water flea), 21d, OECD Test Guideline 211)

Persistence & Degradability:

 Biodegradability: Readily biodegradable – 99% biodegradation
 28d, OECD Test Guideline 301F

Partition coefficient: n-octanol/water: log Pow: 1.16

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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The following ecotoxicological data refer to:**Caprylyl Glycol:****Exotoxicity:**

Toxicity to fish:	> 2.2 - < 22.2 mg/l LC ₅₀ (Danio ririo (zebra fish), 96h, static test)
Toxicity to Daphnia and Other Aquatic Invertebrates:	176 mg/l EC ₅₀ (Daphnia magna (Water flea), 48h, OECD Test Guideline 202)
Toxicity to algae:	35 mg/l EC ₅₀ (Pseudokirchneriella subcapitata (green algae), 72h, OECD Test Guideline 201)

Persistence & Degradability:

Biodegradability: Readily Biodegradable - 75% biodegradation
28d, OECD Test Guideline 301D

Partition coefficient: n-octanol/water: log Pow: 1.0

SECTION 13. DISPOSAL CONSIDERATIONS**Residues from product**

Prohibition: Do not allow the product to be released into the Environment. Do not contaminate ponds, waterways or ditches with chemical or used container.

Destruction/Disposal: Contact waste disposal services. Dispose of in accordance with all relevant local, state and federal regulations.

Contaminated packaging

Decontamination/cleaning: Empty remaining contents. Dispose of contents as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Destruction/Disposal: Do not re-use empty containers.

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

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG

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Air: Material is not restrictive for air transport and is not regulated by ICAO/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

Federal Regulations:

US EPA EPCRA (Emergency Planning and Community Right-to-Know Act:

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4):

This material does not contain any components with a CERCLA RQ

SARA 302:

This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity:

This material does not contain any components with a section 304 EHS RQ.

SARA Hazard Designation Sections 311/312 (40 CFR 370):

Serious eye damage or eye irritation

Section 313 Toxic Chemicals (40 CFR 372.65):

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredient	CAS Number	%
Phenoxyethanol	122-99-6	55.60%

US State Regulations:

Pennsylvania Right to Know:

Components	CAS Number
Phenoxyethanol	122-99-6
Carpylyl Glycol	1117-86-8

New Jersey Right to Know:

Components	CAS Number
Phenoxyethanol	122-99-6

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Caprylyl Glycol	1117-86-8
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Other regulations:

EINECS inventory status:	Phenoxyethanol:	204-589-7
	Caprylyl Glycol:	214-254-7
TSCA inventory status:	Exempt	
AICS inventory status:	122-99-6 & 1117-86-8	
Canadian (CEPA DSL) inventory status:	Listed as Ethanol, 2-phenoxy- (DSL) & Octane-1,2-diol (DSL)	
Japan (MITI list):	Phenoxyethanol & Caprylyl Glycol	
Korea:	Phenoxyethanol & Caprylyl Glycol	
China inventory status:	Phenoxyethanol & Caprylyl Glycol	
Philippines inventory status:	Not Listed: Caprylyl Glycol (1117-86-8)	
	Listed as: Ethanol, 2-phenoxy-	

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:	10/31/2025
Preparation Date:	04/14/2021
MSDS summary of changes	Added "registered" symbol to tradename.

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.