

1. PRODUCT INFORMATION

Product Name : Optiphen Plus
Country of Origin : USA
Recommended Use : Preservative
Supplier : Windy Point Soap Making Supplies Inc.
Address : 14, 6125-12th Street SE, Calgary, AB T2H 2K1
Telephone : 587-318-6678
Emergency Telephone : (800) 225-3924 Canada, USA, Puerto Rico

2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation: Category 2A

GHS Label Element



Signal Word

Warning.

Hazard Statements

Causes serious eye irritation.

Precautionary Statements

Prevention

Wash skin thoroughly after handling. Wear eye protection/ face protection.

Response

IF IN 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.

Other Hazards

None known.

3. COMPOSITION / INFORMATION INGREDIENTS

Ingredients

Substance/Mixture

Mixture

Hazardous components

| Chemical Name | CAC Number | Classification | Concentration (%) |
|----------------------|-------------------|---|--------------------------|
| 2-Phenoxyethanol | 122-99-6 | Acute Tox. 4; H302 Eye Irrit. 2A; H319 | 52.2582 |
| 1,2-Octandiol | 1117-86-8 | Eye Irrit. 2A; H319 | 41.7398 |
| Sorbic Acid | 110-44-1 | Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 | 6.002 |

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

Eye contact

Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.

Skin contact

Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.

Inhalation

If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion

IF SWALLOWED: CALL A POISON CONTROL CENTER or physician if you feel unwell. 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.

Notes to physician

No hazards which require special first aid measures.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, spray foam, carbon dioxide (CO₂), dry chemical.

Unsuitable extinguishing media

High volume water jet.

Specific hazards during firefighting

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 from fire-fighting to enter drains or water courses.

Hazardous combustion products

Carbon dioxide and carbon monoxide.

Specific extinguishing methods

Product is compatible with standard fire-fighting agents.

Further information

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

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Precautionary measures

Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental measures

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Other information

Comply with all applicable federal, state, and local regulations

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe vapors/dust. Do not smoke. Container hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection, see section 8. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations/working materials must comply with the technological safety standards. Protect from frost.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters.

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.

Hand protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

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

Skin and body protection

Wear as appropriate: Impervious clothing, safety shoes, choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

Wash hands before breaks and at the end of the work day. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------|-----------------------------------|
| Appearance | : Liquid |
| Colour | : Light yellow |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point/freezing point | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point | : 255 °F / 124 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density | : No data available |
| Relative density | : No data available |
| Density | : 1.014 - 1.024 g/cm ³ |
| Solubility(ies) Water solubility | : No data available |
| Solubility in other solvents | : No data available |
| Partition coefficient: noctanol/water | : No data available |
| Thermal decomposition | : No data available |
| Viscosity | |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Oxidizing properties | : No data available |

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Reactivity

No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Product will not undergo hazardous polymerization.

Chemical incompatibilities

Strong bases. Strong oxidizing agents.

Conditions to avoid

Excessive heat. Do not allow evaporation to dryness. Exposure to light.

Hazardous decomposition products

When heated, may produce unpleasant fumes and/or smoke. Combustion may produce Carbon Monoxide and/or Carbon Dioxide.

11. TOXICOLOGICAL INFORMATION

2-Phenoxyethanol LD 50 (Rat): 1,850 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity

Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

1,2-Octandiol **Acute oral toxicity**
LD 50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401 GLP: yes

Assessment: No adverse effect has been observed in acute oral toxicity tests

Acute inhalation toxicity

LC 50 (Rat): > 7.015 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Remarks: Information given is based on data obtained from similar substances.

Sorbic Acid **Acute oral toxicity**
LD 50 (Rat): 7.36 g/kg

Acute inhalation toxicity

LC 50 (Rat): > 38.1 mg/m³
Exposure time: 6 h
Test atmosphere: dust/mist

Acute dermal toxicity

LD 50 (Rabbit): > 7,940 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Remarks: May cause skin irritation in susceptible persons.

Components

2-Phenoxyethanol: Species: Rabbit
Result: Not irritating to skin

1,2-Octandiol: Species: Rabbit
Result: Not irritating to skin

Sorbic Acid: Result: Irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin. Causes serious eye irritation.

Components

2-Phenoxyethanol: Species: Rabbit
Result: Not irritating to eyes

1,2-Octandiol: Result: Not irritating to eyes

Sorbic Acid: Species: Rabbit
Result: Irritating to eyes
Method: OECD Test Guideline 405

Respiratory or skin sensitization

Components

- 2-Phenoxyethanol: Species: Guinea pig
Assessment: Does not cause skin sensitization.
Method: OECD Test Guideline 406
- 1,2-Octandiol: Test Type: Local lymph node assay
Species: Mouse
Assessment: Did not cause sensitization on laboratory animals.
Method: OECD
Test Guideline 429
Result: Did not cause sensitization on laboratory animals.
GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components

- 2-Phenoxyethanol: Test Type: Ames test
- Genotoxicity in vitro Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
- 1,2-Octandiol: Test Type: Ames test
- Genotoxicity in vitro Metabolic activation: with and without metabolic activation
Method: OECD
Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components

Sorbic Acid: Exposure routes: Inhalation
Target Organs: Respiratory
Tract Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

No aspiration toxicity classification.

Further information

Carcinogenicity:

IARC

No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity

| | | |
|-----------------------|--|---|
| 2-Phenoxyethanol: | Toxicity to fish | LC 50 (Fathead minnow (<i>Pimephales promelas</i>)): 337 - 352 mg/l |
| Genotoxicity in vitro | | Exposure time: 96 h |
| | | Test Type: flow-through test |
| | Toxicity to daphnia and other aquatic invertebrates | EC50 (<i>Daphnia magna</i> (Water flea)): >500 mg/l |
| | | Exposure time: 48h |
| | | Test Type: static test |
| | | Method: OECD Test Guideline 202 |
| | Toxicity to algae | NOEC (<i>Desmodesmus subspicatus</i> (green algae)): > 500 mg/l |
| | | End point: Growth inhibition |
| | | Exposure time: 72h |
| | | Test Type: static test |
| | Toxicity to fish (Chronic toxicity) | NOEC (<i>Pimephales promelas</i> (fathead minnow)): 23 mg/l |
| | | Exposure time: 34 d |
| | | Test Type: flow-through test |
| | | Method: OECD Test Guideline 210 |
| | Toxicity to daphnia and Aquatic invertebrates (Chronic toxicity) | NOEC (<i>Daphnia</i> (water flea)): 9.43 mg/l |
| | | Exposure time: 21 d |
| | | End point: Reproduction Test |
| | | Test Type: semi-static test |
| | | Method: OECD Test Guideline 211 |

| | | |
|----------------|---|--|
| 1,2-Octandiol: | Toxicity to fish | LC 50 (Danio rerio (zebra fish)): > 2.2 - < 22.2 mg/l Exposure time: 96 h Test Type: static test |
| | Toxicity to daphnia and other aquatic invertebrates | EC 50 (Water flea (Daphnia magna)): 176 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 |
| | Toxicity to algae | EC 50 (Pseudokirchneriella subcapitata (green algae)): 35 mg/l End point: Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes |
| Sorbic Acid: | Toxicity to fish | LC50 (Oryzias latipes (Orange-red killifish)): 75 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes |
| | Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): 70 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes |
| | Toxicity to algae | EbC50 (Desmodesmus subspicatus (green algae)): 24.1 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes |

ErC50 (Desmodesmus subspicatus (green algae)): 41.9 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia
and Aquatic
invertebrates
(Chronic toxicity)

NOEC (Water flea (Daphnia magna)): 50 mg/l

Exposure time: 21 d

Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Persistence and degradability

2-Phenoxyethanol:

Result: Readily biodegradable

Biodegradability

Biodegradation: 99 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

1,2-Octandiol:

Result: Readily biodegradable

Biodegradability

Biodegradation: 75 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Remarks: Readily biodegradable

Sorbic Acid:

Result: Readily biodegradable

Biodegradability

Biodegradation: 74.9 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Bio accumulative potential

2-Phenoxyethanol: log Pow: 1.16

Partition coefficient: n-octanol/water

1,2-Octandiol: log Pow: 1.0

Partition coefficient: n-octanol/water

Sorbic Acid: log Pow: 1.33

Partition coefficient: n-octanol/water pH: 2.5

Mobility in Soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATION

General advice

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

International transport regulations

MX_DG

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

TDG_INWT_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

REGULATION CFR_RAIL_C

Not dangerous goods

U.S. DOT - ROAD

Not dangerous goods

Marine Pollutant – NO

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

ARA 311/312 HAZARDS: Acute Health Hazard

SARA 313 Component(s)

| | | |
|------------------|----------|--------|
| 2-Phenoxyethanol | 122-99-6 | 52.30% |
|------------------|----------|--------|

Pennsylvania Right to Know

| | |
|------------------|-----------|
| 2-Phenoxyethanol | 122-99-6 |
| 1,2-Octandiol | 1117-86-8 |
| Sorbic Acid | 110-44-1 |

New Jersey Right to Know

| | |
|------------------|-----------|
| 2-Phenoxyethanol | 122-99-6 |
| 1,2-Octandiol | 1117-86-8 |
| Sorbic Acid | 110-44-1 |

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth effects, or any other reproductive harm.

16. OTHER INFORMATION

NFPA

Health 2

Flammability 1

Hazard 0

HMIS II

Health 2

Flammability 1

Hazard 0

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation

Disclaimer & Caution

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