



Safety Data Sheet

Section 1: Identification

Trade Name: OPTIPHEN

Synonyms: Phenoxyethanol ; Caprylyl Glycol (INCI NAMES)

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CAS Registry Number: 1117-86-8; 122-99-6

CAS Name: 1,2 Octanediol ; 2-Phenoxyethanol

Section 2: Hazard(s) Identification

Hazard Overview

Target Organs: Eyes

Primary Entry Routes: Eyes.

Acute Health Hazards: Causes moderate eye irritation.

Chronic Health Hazards: None known

Signs and Symptoms of Overexposure

Eye Contact: Causes moderate eye irritation.

Skin Contact: Not a hazard under normal use conditions.

Ingestion: May be harmful if swallowed.

Inhalation: Not a hazard under normal use conditions.

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No	Classification	% Content
2-PHENOXYETHANOL	122-99-6	Acute Tox. 4; H302 Eye Irrit. 2A; H319	55.60
1,2-OCTANEDIOL	1117-86-8	Eye Irrit. 2A; H319	44.40

Section 4: First-Aid Measures

Skin Contact: Wash with soap and water.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Section 5: Fire-Fighting Measures

NFPA Rating: HEALTH 2, FLAMMABILITY 1 , REACTIVITY 0

Flash Point (°F): 261 - 262

Extinguishing Media: All standard firefighting media

Unusual Fire/Explosion Hazards: Unknown

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

HMIS RATING:

HEALTH 2

FLAMMABILITY 1

PHYSICAL HAZARD 0

Section 6: Accidental Release Measures

Personal Precautionary

Measures:

Use appropriate protective equipment.

Procedure for

Cleaning/Absorption:

Contain spill with sand or other inert materials

Section 7: Handling and Storage

Handling: Avoid contact with eyes. Wash thoroughly with soap and water after handling.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight.

Section 8: Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No
2-PHENOXYETHANOL	122-99-6
1,2-OCTANEDIOL	1117-86-8

Engineering Controls: Use in a well ventilated area.

Respiratory Protection: Use in a well ventilated area.

Hand Protection: Use gloves as a standard industrial handling procedure.

Eye Protection: Chemical goggles; also wear a face shield if splashing hazard exists.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Colorless

Odor: Not determined

Odor Threshold: Not available

pH: Not determined

Specific Gravity: 1.03 (water=1)

Boiling Point (°F): Not determined

Melting Point/Freezing Point(°F): Not determined

Vapor Pressure: Not determined

Solubility: Not determined

Flash Point 127.2 -127.8 °C

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of handling, use and transportation. Hazardous

Polymerization: Will not occur

Conditions to Avoid: Extreme temperatures.

Section 11: Toxicological Information

Information on likely routes of exposure :
Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

2-PHENOXYETHANOL:

Acute oral toxicity : LD50 (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.

Acute dermal toxicity : LD50 (Rat): 14,391 mg/kg

1,2-OCTANEDIOL:

Acute oral toxicity : LD50 (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 : LC50 (Rat): > 7.015 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:**2-PHENOXYETHANOL:**

Species: Rabbit
Result: No skin irritation

1,2-OCTANEDIOL:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

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

Components:**2-PHENOXYETHANOL:**

Species: Rabbit
Result: Irritating to eyes.

1,2-OCTANEDIOL:

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:**2-PHENOXYETHANOL:**

Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

1,2-OCTANEDIOL:

Test Type: Local lymph node assay

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

2-PHENOXYETHANOL:

Genotoxicity in vitro :

Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

1,2-OCTANEDIOL:

Genotoxicity in vitro :

Test Type: Ames test

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.

Components:

2-PHENOXYETHANOL:

Effects on foetal development : Test Type: Pre-natal

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

ca. 300 mg/kg bw/day

Method: OPPTS 870.3700

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2-PHENOXYETHANOL:

Species: Rat, male and female

NOAEL: 369 mg/kg

Application Route: Oral

Method: OECD Test Guideline 408

Species: Rabbit, male and female

NOAEL: 500 mg/kg

Application Route: Dermal

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

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.

Section 12: Ecological Information

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

Components:

2-PHENOXYETHANOL:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 337 - 352 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): > 500 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test

Toxicity to fish (Chronic toxicity): NOEC (Pimephales promelas (fathead minnow)): 23 mg/l
Exposure time: 34 d
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia (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-OCTANEDIOL

Toxicity to fish : LC50 (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 : EC50 (Daphnia magna (Water flea)): 176 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 35 mg/l
End point: Growth inhibition
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Persistence and degradability

Components:

2-PHENOXYETHANOL:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 99 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

1,2-OCTANEDIOL:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: Readily biodegradable

Bioaccumulative potential

Components:

2-PHENOXYETHANOL:

Partition coefficient:
noctanol/water: log Pow: 1.16

1,2-OCTANEDIOL:

Partition coefficient:
noctanol/water: log Pow: 1.0

No data available

Mobility in soil

Components:

No data available

Other adverse effects

Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.

Components:

2-PHENOXYETHANOL:
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).

Section 13: Disposal Considerations

Disposal of Waste Method: Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

Section 14: Transport Information

Land

Transportation:

DOT (Non-Bulk):

DOT Shipping Name: NOT REGULATED

UN/NA Number: NONE

Hazard Class:

NONE DOT

(Bulk):

DOT Shipping Name: NOT REGULATED

UN/NA Number: NONE

Air Transportation (IATA):

Proper Shipping Name: NOT

REGULATED UN Number: NONE

Hazard Classification:

NONE Sea

Transportation (IMO):

Proper Shipping Name: NOT

REGULATED UN/ID Number: NONE

Hazard Classification:

NONE TDG (Canada):

Proper Shipping Name: NOT

REGULATED Hazard Class: NONE

Section 15: Regulatory Information

TSCA Inventory List: This product and/or its components is listed on TSCA.

California Proposition 65

Carcinogens &

Reproductive Toxicity

(CRT) List:

None of the components of this product is listed on CALPROP 65.

WHMIS Ingredient Disclosure List:

One or more components of this product is listed on the WHMIS Ingredient Disclosure list.

Canada DSL Inventory List: This product and/or its components is listed on DSL.

Canada NDSL Inventory List: This product and/or its components is not listed on NDSL. Japan Inventory of Existing & New Chemical

Substances (ENCS):

This product and/or its components is listed on ENCS. Australia Inventory of Chemical

Substances (AICS) List:

This product and/or its components is listed on AICS.

EU EINECS List: This product and/or its components is listed on EINECS.

ELINCS: This product and/or its components is not listed on ELINCS.

Components:	2-PHENOXYETHANOL 122-99-6
EPCRA (SARA Title III) Section 313 Toxic Chemical -	Listed.

Section 16: Other Information

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