TheSage.com
Majestic Mountain Sage Inc ®

Preservative, Optiphen
Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Name: Preservative, Optiphen
Product Code: 508-445X

1.2 Intended Use: Compound used in customer substance/mixture/product.

1.3 Supplier:
Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, Utah 84321 - United States of America
T 435.755.0863 - F 435.755.2108
www.TheSage.com

1.4 Emergency Telephone Number
No additional information available.

SECTION 2: Hazards Identification

2.1 GHS Classification
Eye Irritation/Damage, Category 2A H319: Causes serious eye irritation.

2.2 Label Elements

Hazard Pictograms

Signal Word: Warning.

Hazard Statements
H319 Causes serious eye irritation.

Precautionary Statements

Prevention:

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305+P351+P338	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.

2.3 Hazards Not Otherwise Classified (HNOC)

Not applicable.

2.4 Other Information

Not applicable.

SECTION 3: Composition/Information on Ingredients

3.1 Substance/Mixture

Hazardous Components:

Chemical Name	CAS No.	Classification	Concentration (%)
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

4.1 Description of 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. If irritation persists, get medical attention.

Skin Contact: First aid is not normally required. However, it is recommended that exposed areas can be cleaned by washing with soap and water.

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 CENTER/doctor 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.

4.2 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 or lower back. Acute kidney failure (sudden slowing or stopping of urine production). Causes serious eye irritation.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: No hazards which require special first aid measures.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, foam, Carbon dioxide (CO^2), or dry chemical.

Unsuitable: High volume water jet.

5.2 Specific Hazards Arising From the Chemical

If product is heated above its flashpoint 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.

5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

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

6.2 Environmental Precautions

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.

6.3 Methods and Material 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. Comply with all applicable federal ,state, and local regulations.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Do not breathe vapors/dust. Do not smoke. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protect see Section 8. Dispose of rinse water in accordance with local and national regulations.

7.2 Conditions for Safe Storage

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.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Guidelines: Contains no substances with occupational exposure limit values.

8.2 Appropriate Engineering Controls

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

8.3 Individual Protection Measures, Such as Personal Protective Equipment

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

Skin/Body Protection: Wear as appropriate: impervious clothing, safety shoes, and resistant gloves.

Respiratory Protection: In the case of vapor formation use a 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.

General Hygiene Considerations: Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State:	Liquid
Color:	Colorless, light yellow
Odor:	No information available
Odor Threshold:	No information available

Property	**Values**
pH:	No information available
Melting/Freezing Point:	No information available
Boiling Point/Range:	No information available
Flash Point:	127.2 - 127.8°C
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Flammability Limit in Air	
Upper Flammability Limit:	No information available
Lower Flammability Limit:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Density:	No information available
Water Solubility:	No information available
Solubility in Other Solvents:	No information available
Partition Coefficient:	No information available
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Kinematic Viscosity:	No information available
Dynamic Viscosity:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Product will not undergo hazardous polymerization.

10.4 Conditions to Avoid
Excessive heat. Do not allow evaporation to dryness.

10.5 Incompatible Materials
Strong acids, strong bases, and strong oxidizing agents.

10.6 Hazardous Decomposition Products
Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Information on Likely Routes of Exposure:
Inhalation, skin contact, eye contact, and ingestion.

Acute Toxicity:
Not classified based on available information.

Components:

2-phenoxyethanol:	
Acute Oral Toxicity:	LD50 (Rat, female): 1,840 mg/kg Method: OECD Test Guideline 401
Acute Inhalation Toxicity:	Assessment: No adverse effect have been observed in acute inhalation toxicity tests.
Acute Dermal Toxicity:	LD50 (Rat): 14,391 mg/kg
1,2-octanediol:	
Acute Oral Toxicity:	LC50 (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 Remarks: Information given is based on data obtained from similar substances.

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: Vapors 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 Sensitization:
Skin Sensitization: Not classified based on available information.
Respiratory Sensitization: Not classified based on available information.

Components:
2-phenoxyethanol:
Species: Guinea pig
Assessment: Does not cause skin sensitization.
Method: OECD Test Guideline 403
1,2-octanediol:
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:	
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. 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 probably, possible or confirmed human carcinogen by IARC.

OSHA: No components 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

12.1 Ecotoxicity

Components:

2-phenoxyethanol:

Toxicity to Fish: LC50 (Pimephales promelas (fathead minnow)): 337 - 362 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 fled)): 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

12.2 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

12.3 Bioaccumulation

Components:
2-phenoxyethanol:
Partition Coefficient: n-octanol/water:
log Pow: 1.16
1,2-octanediol:
Partition Coefficient: n-octanol/water:
log Pow: 1.0

12.4 Mobility in Soil

Components:
No data available.

12.5 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

13.1 Waste Treatment Methods

Disposal of Wastes:
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.

SECTION 14: Transport Information

14.1 Transport Regulations

Name	Classification
U.S. DOT - ROAD	Not dangerous goods.
CFR_RAIL_C	Not dangerous goods.
U.S. DOT - INLAND WATERWAYS	Not dangerous goods.
TDG_ROAD_C	Not dangerous goods.
TDG_RAIL_C	Not dangerous goods.
TDG_INWT_C	Not dangerous goods.
INTERNATIONAL MARITIME DANGEROUS GOODS	Not dangerous goods.
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO	Not dangerous goods.

Name	Classification
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER	Not dangerous goods.
mx_dg	Not dangerous goods.

SECTION 15: Regulatory Information

15.1 U.S. Federal Regulations

EPCRA - Emergency Planning and Community Right-to-Know Act
No information available.

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not container any components with a section 304 EHS RQ.

SARA 311/312
Serious eye damage or eye irritation.

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

SARA 313
The following components are subject to reporting levels established by SARA Title III, Section 313: 2-phenoxyethanol 122-99-6 55.60%

15.2 U.S. State Regulations

Pennsylvania Right To Know
2-phenoxyethanol 122-99-6
1,2-octanediol 1117-86-8

New Jersey Right To Know
2-phenoxyethanol 122-99-6
1,2-octanediol 1117-86-8

California Prop 65
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

15.3 International Inventories

The components of this product are reported in the following inventories:

DSL	All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory
TSCA	For Cosmetic Use Only

Inventories: AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA).

SECTION 16: Other Information

16.1 NFPA Rating

Health Hazards: 2
Flammability: 1
Instability: 0
Physical and Chemical Properties: -

16.2 HMIS Rating

Health Hazards: 2
Flammability: 1
Physical Hazards: 0
Personal Protection: -

16.3 NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB.

16.4 Full Text of H-Statements Referred to Under Sections 2 and 3

H302: Harmful if swallowed.
H319: Causes serious eye irritation.

Notes:
This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.