

# ASHLAND®

## SAFETY DATA SHEET

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Revision Date: 04/25/2013

Print Date: 1/7/2014

MSDS Number: R0717520

Version: 1.0

Optiphen™ preservative  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries 830388

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

|  |   |  |
|--|---|--|
| Ashland<br>P.O. Box 2219<br>Columbus, OH 43216 | Regulatory Information Number<br>Telephone<br>Emergency telephone number                            | 1-800-325-3751<br>614-790-3333<br>1-800-ASHLAND (1-800-274-5263) |
| Product name                                   | Optiphen™ preservative<br>™ Trademark, Ashland or its subsidiaries, registered in various countries |  |
| Product code                                   | 830388  |  |
| Product Use Description                        | Personal care   |  |

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance: liquid, colourless

WARNING! CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.

#### Potential Health Effects

##### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

##### **Eye contact**

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

##### **Skin contact**

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

##### **Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

##### **Inhalation**

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

##### **Aggravated Medical Condition**

No data

##### **Symptoms**

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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, blood abnormalities (breakage of red blood cells), acute kidney failure (sudden slowing or stopping of urine production)

### Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: thyroid effects, effects on kidney function, liver abnormalities

### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

### Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | CAS-No. / Trade Secret No. | Concentration |
|----------------------|----------------------------|---------------|
| 2-PHENOXYETHANOL     | 122-99-6                   | >=50-<60%     |
| 1,2-OCTANEDIOL       | 1117-86-8                  | >=40-<50%     |

## 4. FIRST AID MEASURES

### Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

### Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

### Inhalation

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If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

### Notes to physician

**Hazards:** No information available.

**Treatment:** No information available.

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

### Hazardous combustion products

No data

### Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

### Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

### Methods for cleaning up

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

### Other information

Comply with all applicable federal, state, and local regulations.

## 7. HANDLING AND STORAGE

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### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

### Storage

Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Contains no substances with occupational exposure limit values.

### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

### Exposure 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 or apparent adverse effects.

### Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist. Maintain eye wash station near work area.

### Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

### Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                |                                     |
|----------------|-------------------------------------|
| Physical state | liquid                              |
| Colour         | colourless, light yellow            |
| Flash point    | 261.0 - 262.0 °F / 127.2 - 127.8 °C |

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|                |                                       |
|----------------|---------------------------------------|
| <b>Density</b> | 1.0126 - 1.0217 g/cm3 @ 77 °F / 25 °C |
|----------------|---------------------------------------|

### 10. STABILITY AND REACTIVITY

**Stability**

Stable.

**Conditions to avoid**

None known.

**Incompatible products**

None known.

**Hazardous decomposition products**

No data

**Hazardous reactions**

Product will not undergo hazardous polymerization.

### 11. TOXICOLOGICAL INFORMATION

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

**Product**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitisation : no data available

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Target Organ Systemic Toxicant : Target Organs: Overexposure to this material (or its components)  
- Repeated exposure has been suggested as a cause of the following effects in laboratory animals: thyroid effects, effects on kidney function, liver abnormalities

### **Components:**

#### **2-PHENOXYETHANOL:**

Acute oral toxicity : LD 50 Rat: 1,850 mg/kg  
Method: OECD Test Guideline 401

#### **1,2-OCTANEDIOL:**

Acute oral toxicity : LD 50 Rat: > 2,240 mg/kg

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Product:**

no data available

#### **Components:**

#### **1,2-OCTANEDIOL:**

Toxicity to daphnia and other : EC 50 (Water flea (Daphnia magna)): 176 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC 50 (Pseudokirchneriella subcapitata (green algae)): 46 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **Persistence and degradability**

#### **Product:**

no data available

#### **Components:**

#### **1,2-OCTANEDIOL:**

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

### Bioaccumulative potential

#### Product:

no data available

#### Components:

##### 2-PHENOXYETHANOL:

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

##### 1,2-OCTANEDIOL:

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

### Mobility in soil

#### Product:

no data available

#### Components:

no data available

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

## 14. TRANSPORT INFORMATION

### REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

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### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

### TRANSPORT CANADA - RAIL

Not dangerous goods

### TRANSPORT CANADA - ROAD

Not dangerous goods

### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

### U.S. DOT - RAIL

Not dangerous goods

### U.S. DOT - ROAD

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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

### California Prop. 65

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

### SARA Hazard Classification

### SARA 311/312 Classification

Acute Health Hazard



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### SARA 313 Component(s)

|                  |         |
|------------------|---------|
| 2-PHENOXYETHANOL | 58.00 % |
|------------------|---------|

### Notification status

|   |                      |
|---|----------------------|
| US. Toxic Substances Control Act  | y (positive listing) |
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) | y (positive listing) |
| Australia. Industrial Chemical (Notification and Assessment) Act  | y (positive listing) |
| New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand                                       | y (positive listing) |
| Japan. Kashin-Hou Law List  | y (positive listing) |
| Korea. Toxic Chemical Control Law (TCCL) List   | y (positive listing) |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act                                       | n (Negative listing) |
| China. Inventory of Existing Chemical Substances  | y (positive listing) |

|                  | HMIS | NFPA |
|------------------|------|------|
| Health           | 2    | 2    |
| Flammability     | 1    | 1    |
| Physical hazards | 0    |      |
| Instability      |      | 0    |
| Specific Hazard  | --   | --   |

### 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

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IMDG : International Maritime Code for Dangerous Goods  
ISO : International Organization for Standardization  
logPow : octanol-water partition coefficient  
LCxx : Lethal Concentration, for xx percent of test population  
LDxx : Lethal Dose, for xx percent of test population.  
ICxx : Inhibitory Concentration for xx of a substance  
Ecxx : Effective Concentration of xx  
N.O.S.: Not Otherwise Specified  
OECD : Organization for Economic Co-operation and Development  
OEL : Occupational Exposure Limit  
P-Statement : Precautionary Statement  
PBT : Persistent , Bioaccumulative and Toxic  
PPE : Personal Protective Equipment  
STEL : Short-term exposure limit  
STOT : Specific Target Organ Toxicity  
TLV : Threshold Limit Value  
TWA : Time-weighted average  
vPvB : Very Persistent and Very Bioaccumulative  
WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
DOT : Department of Transportation  
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
HMIRC : Hazardous Materials Information Review Commission  
HMIS : Hazardous Materials Identification System  
NFPA : National Fire Protection Association  
NIOSH : National Institute for Occupational Safety and Health  
OSHA : Occupational Safety and Health Administration  
PMRA : Health Canada Pest Management Regulatory Agency  
RTK : Right to Know  
WHMIS : Workplace Hazardous Materials Information System