	Page: 1
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Trade name : optiphen™ plus preservative  
 Description : preservative  
 ™ Trademark, Ashland or its subsidiaries, registered in various countries

### Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Preservative

<b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America (USA) 1-614-790-3333 (USA)  EHSProductSafety@ashland.com	<b>Emergency telephone</b> 1-800-ASHLAND (1-800-274-5263)  <b>Regulatory information</b> 1-614-790-3333 (customer service)  <b>Product Information</b> 1-614-790-3333 (USA)
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## SECTION 2. HAZARDS IDENTIFICATION


### GHS Classification

Serious eye damage : Category 1  
  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

### GHS label elements

Hazard pictograms :  

Signal Word : Danger

	Page: 2
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date:01/15/2024
	SDS Number: R0717521
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	Version: 1.10

**Hazard Statements** : Causes serious eye damage.  
May cause respiratory irritation.

**Precautionary Statements** : **Prevention:**  
Avoid breathing mist or vapors.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection/ face protection.

**Response:**  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**Storage:**  
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
None known.


---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**


Chemical name	CAS-No.	Classification	Concentration (%)
2-PHENOXYETHANOL	122-99-6	Acute Tox. 4; H302 Eye Dam. 1; H318 STOT SE 3; H335	52.30
1,2-OCTANEDIOL	1117-86-8	Eye Irrit. 2A; H319	41.70
SORBIC ACID	110-44-1	Comb Dust Skin Irrit. 2; H315 Eye Irrit. 2A; H319	6.00

	Page: 3
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
	SDS Number: R0717521
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	Version: 1.10

		STOT SE 3; H335	
--	--	-----------------	--

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this material safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
 If on skin, rinse well with water.  
 If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
 Do NOT induce vomiting.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.  
 Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Gastrointestinal discomfort  
 Extremely corrosive and destructive to tissue.  
 tearing  
 Nasal irritation  
 Blurred vision  
 Irritation  
 Nausea

	Page: 4
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date:01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

Local irritation  
 Causes serious eye damage.  
 May cause respiratory irritation.


Notes to physician : Treat symptomatically.

#### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide
- Specific extinguishing methods :  
  
Standard procedure for chemical fires.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- 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.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

	Page: 5
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

Keep in suitable, closed containers for disposal.

---

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
 Do not breathe vapors/dust.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 To avoid spills during handling keep bottle on a metal tray.  
 Dispose of rinse water in accordance with local and national regulations.
- 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.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION


### Ingredients 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
SORBIC ACID	110-44-1

- 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

	Page: 6
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date:01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

apparent adverse effects.

**Personal protective equipment**

Respiratory protection : In the case of vapour 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.

Hand protection

Material : butyl-rubber  
 Break through time : 480 min  
 Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles  
 Eye wash bottle with pure water


Skin and body protection : Work uniform or laboratory coat.

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

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid  
 Color : light yellow  
 Odor : characteristic  
 Odor Threshold : No data available  
 pH : No data available  
 Melting point/freezing point : not determined  
 Boiling point/boiling range : not determined

	Page: 7
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

Flash point : 124 °C

Evaporation rate : not determined

Flammability (solid, gas) :  
not determined

Flammability (liquids) : not determined

Flammability (liquids)  
Upper explosion limit : not determined

Lower explosion limit : not determined

Vapor pressure : not determined

Relative vapor density : not determined

Relative density : No data available

Density : 1.014 - 1.024 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : not determined

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : not determined

Thermal decomposition : No data available

Viscosity  
Viscosity, dynamic : not determined


Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

---

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

	Page: 8
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Vapors may form explosive mixture with air.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Strong bases  
Oxidizing agents  
Strong acids

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

---

## SECTION 11. TOXICOLOGICAL INFORMATION

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

### Acute toxicity

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate : 2,665 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 12.59 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### **Components:**

##### 2-PHENOXYETHANOL:


Acute oral toxicity : LD50 (Rat, male): 1,394 mg/kg

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:



	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

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

**SORBIC ACID:**  
 Acute oral toxicity : LD50 (Rat): 7.36 g/kg

Acute inhalation toxicity : LC50 (Rat): > 38.1 mg/m<sup>3</sup>  
 Exposure time: 6 h  
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 7,940 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Components:**

**2-PHENOXYETHANOL:**

Species: Rabbit

Result: No skin irritation

**1,2-OCTANEDIOL:**

Species: Rabbit

Result: No skin irritation

**SORBIC ACID:**

Result: Irritating to skin.


**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

	Page: 10
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
	SDS Number: R0717521
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	Version: 1.10

**2-PHENOXYETHANOL:**

Species: Rabbit  
 Result: Corrosive

**1,2-OCTANEDIOL:**  
 Result: Irritating to eyes.

**SORBIC ACID:**  
 Species: Rabbit  
 Result: Irritating to eyes.  
 Method: OECD Test Guideline 405

**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 406

**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  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

	Page: 11
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**2-PHENOXYETHANOL:**

Effects on fetal development : Test Type: Pre-natal  
 Species: Rat  
 Application Route: Oral  
 General Toxicity Maternal: NOAEL (No observed adverse effect level): ca. 300 mg/kg bw/day  
 Method: OPPTS 870.3700

**STOT-single exposure**

May cause respiratory irritation.

**Components:**

**2-PHENOXYETHANOL:**

Assessment: May cause respiratory irritation.

**SORBIC ACID:**

Routes of exposure: Inhalation  
 Target Organs: Respiratory Tract  
 Assessment: May cause respiratory irritation.

**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

	Page: 12
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

**Carcinogenicity:****IARC**

No ingredient 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 on OSHA's list of regulated carcinogens.

**NTP**

No ingredient 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

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.

**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

	Page: 13
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

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

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



<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
	SDS Number: R0717521
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	Version: 1.10

Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 50 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
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

##### **SORBIC ACID:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 74.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

No data available

#### **Bioaccumulative potential**

##### **Components:**

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

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


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

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

##### **SORBIC ACID:**

Partition coefficient: n-octanol/water : log Pow: 1.33  
pH: 2.5

No data available

	Page: 15
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date:01/15/2024
	SDS Number: R0717521
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	Version: 1.10

**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 methods**

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.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

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

**U.S. DOT - ROAD**

Not dangerous goods
---------------------

**CFR\_RAIL\_C**



**SAFETY DATA SHEET**

Revision Date: 05/18/2023

Print Date:01/15/2024

SDS Number: R0717521

Version: 1.10

optiphen™ plus preservative  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
830417

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

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MX\_DG**


Not dangerous goods

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

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.



	Page: 17
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

**SECTION 15. REGULATORY INFORMATION**

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know**

**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 contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Serious eye damage or eye irritation  
 Specific target organ toxicity (single or repeated exposure)

**SARA 302** : This material does not contain 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 52.30 %


**US State Regulations**

**Pennsylvania Right To Know**

2-PHENOXYETHANOL	122-99-6
1,2-OCTANEDIOL	1117-86-8
SORBIC ACID	110-44-1

**New Jersey Right To Know**

2-PHENOXYETHANOL	122-99-6
1,2-OCTANEDIOL	1117-86-8
SORBIC ACID	110-44-1

	Page: 18
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

**California Prop. 65**

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

**The ingredients of this product are reported in the following inventories:**

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : 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

**Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)


**Other regulations**

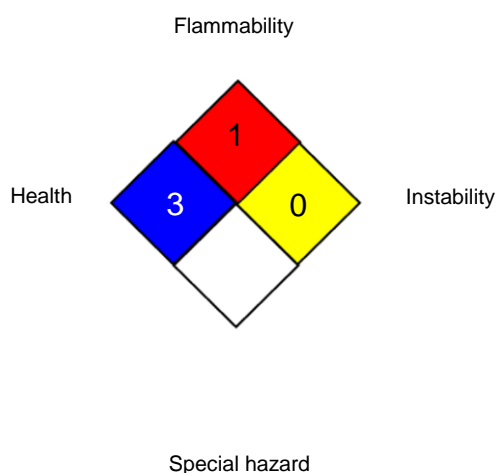
US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) : Not applicable

---

**SECTION 16. OTHER INFORMATION**

**Further information**

	Page: 19
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

**NFPA 704:****HMIS® IV:**

<b>HEALTH</b>	/	<b>3</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>


HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of H-Statements**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -

	Page: 20
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date: 01/15/2024
	SDS Number: R0717521
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	Version: 1.10


International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Ashland. (<http://www.ashland.com>)

Sources of key data used to compile the Material Safety Data Sheet : Ashland internal data including own and sponsored test reports  
 European Union Law with content from the Official Journal of the European Union.  
 European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.  
 The German Water Hazard Classes.  
 ReachCentrum; a series of support services to help comply with REACH regulations.  
 The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.  
 Cefic, the European Chemical Industry Council.  
 ESIS European Chemical Substances Information System

Revision Date : 05/18/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is

	Page: 21
<b>SAFETY DATA SHEET</b>	Revision Date: 05/18/2023
	Print Date:01/15/2024
optiphen™ plus preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830417	SDS Number: R0717521 Version: 1.10

not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN