

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 12.12.2018

SDS Number: R0718724

Version: 1.1

Optiphen™ 200 preservative  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_BE

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Optiphen™ 200  
 preservative  
 ™ Trademark, Ashland or its subsidiaries, registered in  
 various countries

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the : Skin-care  
 substance/mixture

**1.3 Details of the supplier of the safety data sheet**

Ashland  
 P.O. Box 8619  
 NL3009 AP, Rotterdam  
 Netherlands  
 +31 10 497 5000 (in the Netherlands), or  
 contact your local CSR contact person

EUSMT@ashland.com

**1.4 Emergency telephone number**

+1-800-274-5263/001-859-357-3564, or contact  
 your local emergency telephone number at  
 070/245.245

**Product Information**

+31 10 497 5000 (in the Netherlands), or contact  
 your local CSR contact person

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2

H319: Causes serious eye irritation.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H319

Causes serious eye irritation.

Precautionary statements

: **Prevention:**

P264

Wash skin thoroughly after handling.

P280

Wear 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 Other hazards****Additional advice**

No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
2-Phenoxyethanol	122-99-6 204-589-7	Acute Tox.4; H302 Eye Irrit.2; H319	>= 70,00 - < 80,00
Octane-1,2-diol	1117-86-8 214-254-7	Eye Irrit.2; H319	>= 25,00 - < 40,00

For explanation of abbreviations see section 16.

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**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.
- If inhaled : If breathed in, move person into fresh air.  
 If unconscious place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : 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**

- Symptoms : 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)
- Risks : Causes serious eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : No hazards which require special first aid measures.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

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.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Persons not wearing protective equipment should be excluded

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from area of spill until clean-up has been completed.  
 Comply with all applicable federal, state, and local regulations.

**6.2 Environmental precautions**

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**

Methods for 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.

**6.4 Reference to other sections**

For further information see Section 8 and Section 13 of the safety data sheet.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : 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

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installations / working materials must comply with the  
 technological safety standards. Protect from frost.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : No data available

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****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.

**Personal protective equipment**

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

Hand protection

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

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.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

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Appearance : liquid

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 : 127 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1,044 - 1,06 g/cm<sup>3</sup> (25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

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Viscosity, kinematic : No data available

Oxidizing properties : No data available

**9.2 Other information**

No data 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**

Hazardous reactions : Product will not undergo hazardous polymerization.

**10.4 Conditions to avoid**

Conditions to avoid : excessive heat  
 Do not allow evaporation to dryness.

**10.5 Incompatible materials**

Materials to avoid : Strong bases  
 Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

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



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**Acute toxicity**

Not classified based on available information.

**Components:****2-PHENOXYETHANOL:**

Acute oral toxicity : 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.

**Components:****1,2-OCTANEDIOL:**

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.

**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

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**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

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:**

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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.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Further information****Product:**

Remarks: No data available

**SECTION 12: Ecological information****12.1 Toxicity****Components:**

2-Phenoxyethanol

Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 337 - 352 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other : EC50 (*Daphnia magna* (Water flea)): > 500 mg/l

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aquatic invertebrates	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: 23 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow) Test Type: flow-through test Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 9,43 mg/l Exposure time: 21 d End point: Reproduction Test Species: Daphnia (water flea) Test Type: semi-static test Method: OECD Test Guideline 211
Octane-1,2-diol 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

**12.2 Persistence and degradability****Components:**

2-Phenoxyethanol

Biodegradability

: Result: Readily biodegradable

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Biodegradation: 99 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

Octane-1,2-diol  
 Biodegradability

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

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

**Components:**

2-Phenoxyethanol  
 Partition coefficient: n-  
 octanol/water : log Pow: 1,16

Octane-1,2-diol  
 Partition coefficient: n-  
 octanol/water : log Pow: 1,0

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Not relevant

**12.6 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.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

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Product : 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.  
 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****SECTION 14: Transport information****14.1 UN number**

ADN:

ADR:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:

INTERNATIONAL MARITIME DANGEROUS GOODS:

RID:

**14.2 UN proper shipping name**

ADN:

ADR:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:

INTERNATIONAL MARITIME DANGEROUS GOODS:

RID:

**14.3 Transport hazard class(es)**

ADN:

ADR:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:

INTERNATIONAL MARITIME DANGEROUS GOODS:

RID:

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**14.4 Packing group****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.5 Environmental hazards****ADN:** Not applicable**ADR:** Not applicable**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable**RID:** Not applicable**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable


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.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Not applicable

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preparations and articles (Annex XVII)

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

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

TSCA	: On TSCA Inventory
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	Not in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

**Inventories**

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

**15.2 Chemical safety assessment**

No data available

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**SECTION 16: Other information**

**Further information**

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**Full text of H-Statements**



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H302  
**H319**

Harmful if swallowed.  
 Causes serious eye irritation.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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"  
 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

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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

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-pharse : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-pharse: Safety phrase

WGK : German Water Hazard Class