Ashland always solving	Page: 1
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

29 CFR 1910.1200 (OSHA HazCom 2012)

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : Liquapar™ OPTIMA

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

Details of the supplier of the safety data sheet
Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America (USA)
614-790-3333

EHSProductSafety@ashland.com

Emergency telephone number
1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number
1-800-325-3751

Product Information
614-790-3333

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Eye irritation : Category 2A

**GHS** label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:** 

Wash skin thoroughly after handling. Wear eye protection/ face protection.

Response:

Ashland always solving	Page: 2
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

#### Other hazards

None known.

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

Substance / Mixture : Mixture

**Hazardous components** 

Chemical name	CAS-No.	Classification	Concentration (%)
2-PHENOXYETHANOL	122-99-6	Acute Tox. 4; H302	70.015
		Eye Irrit. 2A; H319	

#### **SECTION 4. 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.

Ashland always solving	Page: 3
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

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 and lower back

acute kidney failure (sudden slowing or stopping of urine

production)

Causes serious eye irritation.

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

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.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

phenols toxic fumes

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.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Ashland always solving	Page: 4
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

: Prevent product from entering drains. Environmental precautions

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).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

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.

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

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Hazardous components without workplace control parameters

	04041
( 'omponente	
Components	l CAS-No.

Ashland always solving	Page: 5
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

2-PHENOXYETHANOL 122-99-6

**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

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

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.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Colour : clear

Odour : mild

Odour Threshold : No data available

pH : 7.0 - 7.1

Concentration: 10

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 121.11 °CValue for Component

Ashland always solving	Page: 6
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

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 : > 1.05 - < 1.15 g/cm 3 (25 °C)

Solubility(ies)

Water solubility : insoluble

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

Viscosity, kinematic : No data available

Oxidizing properties : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Do not allow evaporation to dryness.

Ashland always solving	Page: 7
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative	Version: 1.2
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
829522	

Incompatible materials : strong alkalis

Strong bases

Strong oxidizing agents

Hazardous decomposition

products carbon dioxide and carbon monoxide

phenols

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure 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.

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

## Skin corrosion/irritation

Not classified based on available information.

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

<u>Components:</u> 2-PHENOXYETHANOL:

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

Ashland always solving	Page: 8
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

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

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

## Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### Components:

2-PHENOXYETHANOL:

Effects on foetal : Test Type: Pre-natal

development 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

Ashland always solving	Page: 9
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative	Version: 1.2
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
829522	

**Aspiration toxicity** 

Not classified based on available information.

**Further information** 

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

**Product:** 

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

: Not classified based on available information. Chronic aquatic toxicity

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

# Persistence and degradability

**Components:** 

2-PHENOXYETHANOL:

Ashland always solving	Page: 10
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

Biodegradability : Result: Readily biodegradable.

Biodegradation: 99 % Exposure time: 28 d

Method: OECD Test Guideline 301F

No data available

Bioaccumulative potential

Components:

2-PHENOXYETHANOL:

Partition coefficient: n-

octanol/water

: log Pow: 1.16

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., Harmful 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.

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.

Ashland always solving	Page: 11
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

# **SECTION 14. TRANSPORT INFORMATION**

## International transport regulations

## **REGULATION**

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

# $MX_DG$

_	Not dangerous goods
	Not dangerous goods
1	

#### **INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods		

# INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

## INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods	

# TDG\_INWT\_C

Not dangerous goods

# TDG\_RAIL\_C

Not dangerous goods	

## TDG ROAD C

Not dangerous goods	

# U.S. DOT - INLAND WATERWAYS

Not dangerous goods	

# CFR\_RAIL\_C

	Not dangerous goods

Ashland always solving	Page: 12
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

#### U.S. DOT - ROAD

- 1	NOTE: NOTE:
	Not dangerous goods
ſ	

## \*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.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : Acute Health Hazard

**SARA 313** 

2-PHENOXYETHANOL 122-99-6 70.01 %

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.

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

TSCA : Preservative

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

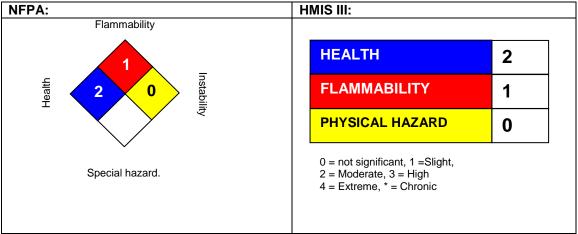
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

Ashland always solving	Page: 13
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 01/25/2017



NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

## **Full text of H-Statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

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.

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 (1-800-325-3751).

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

Ashland always solving	Page: 14
SAFETY DATA SHEET	Revision Date: 01/25/2017
	Print Date: 5/3/2017
	SDS Number: R0717516
Liquapar™ OPTIMA preservative  ™ Trademark, Ashland or its subsidiaries, registered in various countries 829522	Version: 1.2

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
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