

**SAFETY DATA SHEET**

Revision Date: 10/17/2022

Print Date: 10/22/2022

SDS Number: 000000307079

Version: 1.3

EUXYL K 702 preservative  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
967348

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifier**

Trade name : EUXYL K 702 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 : Conservation agent (preservative) for cosmetics

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

Ashland  
P.O. Box 2219  
Columbus, OH 43216  
United States of America (USA)  
1-614-790-3333 (USA)

EHSProductSafety@ashland.com

**Emergency telephone number**

1-800-ASHLAND (1-800-274-5263)

**Regulatory information**

1-614-790-3333 (customer service)

**Product Information**

1-614-790-3333 (USA)

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity (Oral) : Category 4  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Skin sensitization : Category 1  
Carcinogenicity : Category 2  
Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure  
Specific target organ toxicity : Category 1 (Lungs)  
- repeated exposure  
(Inhalation)

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### GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Suspected of causing cancer.  
Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements

: If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

#### Prevention:

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe mist or vapors.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
IF ON SKIN: Wash with plenty of soap and water.  
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.  
IF exposed or concerned: Get medical advice/ attention.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

#### Storage:

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

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**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	>=70.00 - < 90.00
BENZOIC ACID	65-85-0	Comb Dust Skin Irrit. 2; H315  Eye Dam. 1; H318  STOT RE 1; H372	>=10.00 - < 20.00
3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE	520-45-6	Acute Tox. 4; H302	>=5.00 - < 10.00
1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY)	70445-33-9	Acute Tox. 4; H332  Eye Dam. 1; H318	>=1.00 - < 5.00
Poly(methylene),.alpha.,.omega.-bis[[(aminoiminomethyl)amino]iminomethyl] amino]-, dihydrochloride	28757-47-3	Acute Tox. 4; H302  Acute Tox. 2; H330  Eye Dam. 1; H318  Skin Sens. 1B; H317  Carc. 2; H351  STOT RE 1; H372	>=1.00 - < 5.00



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Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this 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 : Harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Suspected of causing cancer.  
Causes damage to organs through prolonged or repeated exposure if inhaled.  
Gastrointestinal discomfort  
Severe allergic skin reactions, bronchospasm and anaphylactic shock  
Symptoms may be delayed.



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Extremely corrosive and destructive to tissue.

Rash  
tearing  
Nasal irritation  
Blurred vision  
Cancer  
Irritation  
Nausea  
Redness  
Itching  
Dermatitis  
Local 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

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Hydrocarbons  
Acid anhydrides  
Burning produces irritant fumes.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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.

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### 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 : Neutralize with chalk, alkali solution or ammonia.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
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 vapours/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.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- 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.
- Materials to avoid : Do not store near acids.

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Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
BENZOIC ACID	65-85-0	TWA	0.5 mg/m3 Inhalable fraction and vapor	ACGIH

**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**

**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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Physical state	: liquid
Color	: yellow, dark yellow
Odor	: characteristic
Odor Threshold	: not determined
pH	: 3 - 4 (20 °C) Concentration: 20 g/l Aqueous solution
Melting point/freezing point	: ca.23 °F / -5 °C
Initial boiling point and boiling range	: > 212 °F / > 100 °C
Flash point	: > 100 °C Method: ISO 2719
Evaporation rate	: not determined
Flammability (solid, gas)	:  not determined
Flammability (liquids)	: not determined
Flammability (liquids)	:
Upper explosion limit	: Upper explosion limit Not applicable
Lower explosion limit	: not determined
Vapor pressure	: not determined
Relative vapor density	: not determined
Relative density	: No data available
Density	: 1.118 - 1.122 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: ca. 10 g/l (20 °C)



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Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : Not applicable

Thermal decomposition : No data available

Viscosity  
Viscosity, dynamic : ca. 27 mPa.s (20 °C)  
Method: Brookfield

Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Surface tension : 36 mN/m

**SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : Stable under normal conditions.

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

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

Incompatible materials : Oxidizing agents  
Strong acids

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

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

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exposure

Eye contact  
 Skin contact  
 Ingestion

**Acute toxicity**

Harmful if swallowed.

**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

**BENZOIC ACID:**Acute oral toxicity : LD50 (Rat): 2,565 mg/kg  
Method: OECD Test Guideline 401Acute inhalation toxicity : LC50 (Rat): > 12.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mistAcute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.**3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE:**

Acute oral toxicity : LD50 (Rat): 1,480 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,000 - 5,000 mg/kg

**1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):**Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.Acute inhalation toxicity : LC50 (Rat): 3.07 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mistAcute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

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Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-,  
dihydrochloride:

Acute oral toxicity : LD50 (Rat): 500 - 1,000 mg/kg  
Assessment: The component/mixture is classified as acute  
oral toxicity, category 4.

Acute inhalation toxicity : LC50 (Rat): 0.29 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is classified as acute  
inhalation toxicity, category 2.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Components:**

2-PHENOXYETHANOL:

Species: Rabbit

Result: No skin irritation

BENZOIC ACID:

Result: Irritating to skin.

3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE:

Species: Rabbit

Exposure time: 4 h

Result: No skin irritation

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Rabbit

Result: Slight, transient irritation

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-,  
dihydrochloride:

Remarks: Not classified

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

2-PHENOXYETHANOL:

Species: Rabbit

Result: Corrosive

BENZOIC ACID:

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Species: Rabbit  
 Result: Corrosive

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Rabbit  
 Result: Corrosive  
 Method: OECD Test Guideline 405

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-,  
 dihydrochlo-ride:  
 Result: Corrosive

**Respiratory or skin sensitization**

Skin sensitisation: May cause an allergic skin reaction.  
 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

BENZOIC ACID:

Test Type: Local lymph node assay  
 Species: Mouse  
 Assessment: Does not cause skin sensitisation.

3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE:

Method: OECD Test Guideline 429  
 Result: Does not cause skin sensitisation.

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Guinea pig  
 Assessment: Does not cause skin sensitisation.  
 Method: OECD Test Guideline 406

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-,  
 dihydrochlo-ride:  
 Result: The product is a skin sensitizer, sub-category 1B.

Germ cell mutagenicity  
 Not classified based on available information.

**Components:**

2-PHENOXYETHANOL:

Genotoxicity in vitro : Test Type: Ames test  
 Test species: Salmonella typhimurium



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Metabolic activation: with and without metabolic activation  
Result: negative

### BENZOIC ACID:

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

### 3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE:

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Result: negative

### 1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Test species: Mouse (male and female)  
Method: OECD Test Guideline 474  
Result: negative

### Carcinogenicity

Suspected of causing cancer.

#### Components:

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-,  
dihydrochloride:

Carcinogenicity - : Suspected human carcinogens  
Assessment

### 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: No observed adverse effect level:  
ca. 300 mg/kg bw/day  
Method: OPPTS 870.3700

#### 1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Effects on fetal development : Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level:



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800 mg/kg bw/day  
Method: OECD Test Guideline 414

Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level:  
50 mg/kg bw/day  
Method: OECD Test Guideline 414

### STOT-single exposure

May cause respiratory irritation.

#### Components:

2-PHENOXYETHANOL:

Assessment: May cause respiratory irritation.

### STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

#### Product:

Routes of exposure: Inhalation

Target Organs: Lungs

Assessment: Causes damage to organs through prolonged or repeated exposure.

#### Components:

BENZOIC ACID:

Routes of exposure: Inhalation

Target Organs: Lungs

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-, dihydrochlo-ride:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### 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

BENZOIC ACID:

Species: Rat



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No observed adverse effect level: 1000 mg/kg  
 Application Route: Oral

Species: Rat  
 NOAEC: 0.25 mg/l  
 Application Route: Inhalation

Species: Rabbit  
 No observed adverse effect level: 2500 mg/kg  
 Application Route: Dermal

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):  
 Species: Rat, male and female  
 No-observed-effect level: 100 mg/kg  
 Application Route: Oral  
 Exposure time: 28 d  
 Method: OECD Test Guideline 407

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks: No data available

### Carcinogenicity:

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

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**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

**BENZOIC ACID:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 10 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l  
 Exposure time: 28 d  
 Test Type: semi-static test  
 Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): >= 25 mg/l  
 Exposure time: 21 d



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(Chronic toxicity)

Test Type: semi-static test  
Method: OECD Test Guideline 211

### 3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE:

Toxicity to fish : NOEC (Cyprinus carpio (Carp)): 218 - 415 mg/l  
Exposure time: 72 h  
Analytical monitoring: no

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 32.1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 23.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### 1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 60.2 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 78.3 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): 48.3 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 1.5 mg/l  
Exposure time: 35 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to bacteria : EC0: 560 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Harmful to aquatic life.

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Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-, dihydrochloride:

M-Factor (Short-term (acute) aquatic hazard) : 10

M-Factor (Long-term (chronic) aquatic hazard) : 10

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

### Persistence and degradability

#### Components:

2-PHENOXYETHANOL:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 99 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

BENZOIC ACID:

Biodegradability : Result: Readily biodegradable.

3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE:

Biodegradability : Concentration: 12 mg/l  
Result: Readily biodegradable.  
Biodegradation: 99 %  
GLP: no

Zahn-Wellens Test  
Concentration: 400 mg/l  
Result: Readily biodegradable.  
Biodegradation: 96 %  
Exposure time: 14 d  
Method: OECD Test Guideline 302B

Concentration: 2 mg/l  
Theoretical oxygen demand  
Result: Readily biodegradable.  
Biodegradation: 81 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D

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GLP: no

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Biodegradability : Result: Inherently biodegradable.  
Method: OECD Test Guideline 302B

Poly(methylene),.alpha.,.omega.-bis[[[(aminoiminomethyl)amino]iminomethyl] amino]-,  
dihydrochlo-ride:

Biodegradability : Result: Not rapidly biodegradable

No data available

### Bioaccumulative potential

#### Components:

2-PHENOXYETHANOL:

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

BENZOIC ACID:

Bioaccumulation : Species: Gambusia affinis (Mosquito fish)  
Bioconcentration factor (BCF): 21  
Exposure time: 24 h  
Concentration: 0.00178 mg/l  
Method: Static

Partition coefficient: n-  
octanol/water : log Pow: 1.88

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-  
octanol/water : log Pow: 2.53 (20 °C)

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., Toxic to aquatic life with long lasting effects.

#### 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

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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**

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**

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Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(methylene),.alpha.,.omeg a.- bis[[[(aminoiminomethyl)amino]i minomethyl] amino]-, dihydrochlo-ride)	9	III	MARINE POLLUTANT:( Poly(methylen e),.alpha.,.ome ga.- bis[[[(aminoimi nomethyl)amin o]iminomethyl] amino]-, dihydrochlo- ride)
----	------	--	---	-----	--

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (Poly(methylene),.alpha.,.omeg a.- bis[[[(aminoiminomethyl)amino]i minomethyl] amino]-, dihydrochlo-ride)	9	III	
----	------	---	---	-----	--

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (Poly(methylene),.alpha.,.omeg a.- bis[[[(aminoiminomethyl)amino]i minomethyl] amino]-, dihydrochlo-ride)	9	III	
----	------	---	---	-----	--

**MX DG**

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(methylene),.alpha.,.omeg a.- bis[[[(aminoiminomethyl)amino]i minomethyl] amino]-, dihydrochlo-ride)	9	III	
----	------	--	---	-----	--

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

Marine pollutant	yes
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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****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**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
BENZOIC ACID	65-85-0	5000	41666

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**

: Skin corrosion or irritation  
Serious eye damage or eye irritation  
Respiratory or skin sensitisation  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)  
Acute toxicity (any route of 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	73.90 %
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**Pennsylvania Right To Know**

2-PHENOXYETHANOL	122-99-6
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BENZOIC ACID	65-85-0
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3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-  
DIONE 520-45-6

WATER 7732-18-5

### New Jersey Right To Know

2-PHENOXYETHANOL 122-99-6

BENZOIC ACID 65-85-0

3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-  
DIONE 520-45-6

WATER 7732-18-5

1,2-PROPANEDIOL, 3-(2-  
ETHYLHEXYLOXY) 70445-33-9

### 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 ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

AIIC : Not in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

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

NZIoC : On the inventory, or in compliance with the inventory

TSCA : This product is regulated under the United States Food and Drug Act (FDA).



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TECI : Not 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)

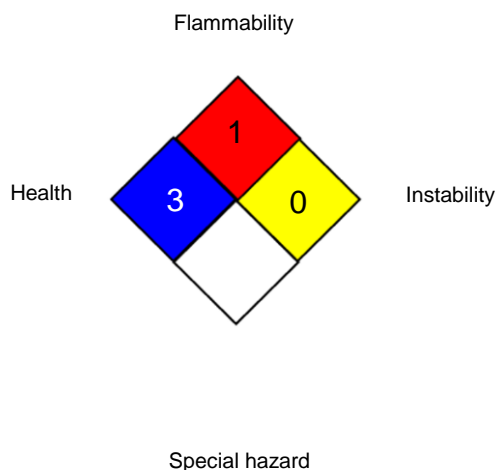
### Other regulations

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.



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H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.  
 H372 Causes damage to organs through prolonged or repeated exposure.

**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 - 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.

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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

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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 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.

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