

SAFETY DATA SHEET

Preservative - Sorbic Acid +2 PF

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Trade Name: Preservative - Sorbic Acid +2 PF

Use of the Substance/Mixture: Preservative

Supplier of Safety Data Sheet: Wholesale Supplies Plus, Inc.

7820 E. Pleasant Valley Road Independence, OH 44131

(800) 359-0944

www.wholesalesuppliesplus.com

In Case of Emergency: ChemTel

(800) 255-3924 US, Canada, PR and USVI

+(813) 248-0585 International

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation: Category 2A

GHS Label Element

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:

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 Number | Classification | Concentration (%) |
|------------------|------------|---|-------------------|
| 2-PHENOXYETHANOL | 122-99-6 | Acute Tox. 4; H302 Eye Irrit. 2A; H319 | 52.2582 |
| 1,2-OCTANEDIOL | 1117-86-8 | Eye Irrit. 2A; H319 | 41.7398 |
| SORBIC ACID | 110-44-1 | Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 | 6.002 |

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: Remove contaminated clothing. If irritation develops, get medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

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 CONTROL CENTER or physician 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.

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

circumstances and the surrounding environment.

Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing media High volume water jet

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

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 fire-fighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective

equipment and emergency

procedures

Use personal protective equipment.

Persons not wearing protective equipment should be excluded

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

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).

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 vapors/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.

Electrical installations I working materials must comply with the technological

safety standards. Protect from frost.

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

Provide sufficient mechanical (general and/or local exhaust) ventilation **Engineering measures**

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 the work day.

When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Light yellow Odor: No data available Odor Threshold: No data available pH: No data available Melting point/freezing point: No data available Boiling point/boiling range: No data available Flash point: 255 °F / 124 °C Evaporation rate: No data available No data available Flammability (solid, gas): No data available Upper explosion limit: Lower explosion limit: No data available Vapor pressure: No data available Relative vapor density: No data available No data available Relative density 1.014 - 1.024 g/cm3 Density Solubility(ies) Water solubility No data available Solubility in other solvents No data available Partition coefficient: n-No data available octanol/water Thermal decomposition No data available

Viscosity, dynamic No data available
Viscosity, kinematic No data available
Oxidizing properties No data available

Viscosity

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.

Exposure to light.

Incompatible materials Strong bases

Strong oxidizing agents

Hazardous decomposition products Carbon dioxide and carbon monoxide

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 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.

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/I

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 LD 50 (Rat): 7.36 g/kg

Acute inhalation toxicity LC 50 (Rat): > 38.1 mg/m3

Exposure time: 6 h

Test atmosphere: dust/mist

Acute dermal toxicity LD 50 (Rabbit): > 7,940 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

2-PHENOXYETHANOL: Species: Rabbit

Result: Not irritating to skin

1,2-OCTANEDIOL: Species: Rabbit

Result: Not irritating to skin

SORBIC ACID:

Result: Irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapors 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

SORBIC ACID: Species: Rabbit

Result: Irritating to eyes

Method: OECD Test Guideline 405

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

1,2-0CTANEDIOL:

Test Type: Local lymph node assay

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

Result: Did not cause sensitisation 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

1,2-0CTANEDIOL:

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.

Components:

SORBIC ACID:

Exposure routes: Inhalation
Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

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

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.

OSHANo component of this product present at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by OSHA.

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

Eco 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 EC50 (Daphnia magna (Water flea)):>500 mg/l

and other aquatic Exposure time: 48h invertebrates 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: 72h
Test Type: static test

Toxicity to fish NOEC (Pimephales promelas (fathead minnow)): 23 mg/l

(Chronic toxicity) Exposure time: 34 d

Test Type: flow-through test

Method: OECD Test Guideline 210

Toxicity to daphnia and Aquatic invertebrates

NOEC (Daphnia (water flea)): 9.43 mg/l

Exposure time: 21 d

(Chronic toxicity)

End point: Reproduction Test Test Type: semi-static test

Method: OECD Test Guideline 211

1,2-0CTANEDIOL:

LC 50 (Danio rerio (zebra fish)): > 2.2 - < 22.2 mg/I

Toxicity to fish

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and

EC 50 (Water flea (Daphnia magna)): 176 mg/I

Other aquatic Invertebrates

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

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/I

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 Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia and aquatic invertebrates

NOEC (Water flea (Daphnia magna)): 50 mg/I

Exposure time: 21 d

(Chronic toxicity) 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 Remarks: Readily biodegradable

SORBIC ACID:

Biodegradability Result: Readily biodegradable

Biodegradation: 74.9 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Bio accumulative potential

Components:

2-PHENOXYETHANOL:

Partition coefficient: n-

octanol/water

log Pow: 1.16

1,2-0CTANEDIOL:

Partition coefficient: n-

octanol/water

log Pow: 1.0

SORBIC ACID:

Partition coefficient: n-

log Pow: 1.33

octanol/water

pH: 2.5

Mobility in Soil
Components
No data available

Other adverse effects

No data available

Product:

Additional ecological

Information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

Components:

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.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

MX_DG

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

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

U.S. DOT - ROAD

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.

SECTION 15. REGULATORY INFORMATION

| SARA 311/312 HAZARDS: | Acute Health Hazard |
|-----------------------|---------------------|
|-----------------------|---------------------|

SARA 313 Component(s)

| 2-PHENOXYETHANOL | 122-99-6 | 52.30% |
|------------------|----------|--------|
| | | |

Pennsylvania Right to Know

1,2-0CTANEDIOL 1117-86-8

SORBIC ACID 110-44-1

New Jersey Right to Know

2-PHENOXYETHANOL 122-99-6

1,2-0CTANEDIOL 1117-86-8

SORBIC ACID 110-44-1

California Prop 65 This product does not contain any chemicals known to State of California to

cause cancer, birth effects, or any other reproductive harm.

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

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

KECL On the inventory, or in compliance with the inventory

PICCS Not in compliance with the inventory

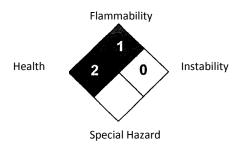
IECSC On the inventory, or in compliance with the inventory

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)

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

| Health | 2 |
|-----------------|---|
| Flammability | 1 |
| Physical Hazard | |

0 = not significant, 1 = slight, 2 = moderate, 3 = high, 4 = extreme, * = chronic

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

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

Sources of key data used to compile the Safety Data Sheet

The UNECE administers regional agreements implementing harmonized 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.

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
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