SAFETY DATA SHEET

NEOLONE™ PE Preservative

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/09/2025	203000021676	Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : NEOLONE™ PE Preservative

Product code : 000000000062632737

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
(412) 809-1000
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or
(703) 527-3887 (Outside U.S.A) and mention CCN12916.
Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Preservative

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.

Precautionary Statements :

Prevention:

Avoid breathing mist or vapors.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ eye protection/ face protection.

Response:

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 un-well.
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 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.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-phenoxyethanol	122-99-6	>= 70 - < 90
2-methyl-2H-isothiazol-3-one	2682-20-4	>= 1 - < 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice	:	Consult a physician. Move out of dangerous area. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
If inhaled	:	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
In case of skin contact	:	Wash off with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
In case of eye contact	:	Get medical attention immediately. In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Remove contact lenses, if present and easy to do. Continue rinsing. Chemical burns must be treated promptly by a physician.
If swallowed	:	Rinse mouth with water. Do not induce vomiting unless directed to do by medical personnel. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Symptoms	:	Acute overexposure to this product may cause dizziness, headache, drowsiness, malaise, abdominal pain. Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage. Skin: Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
Effects	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

May cause respiratory irritation.

Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.
Notes to physician	:	MATERIAL IS SEVERELY IRRITATING. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Dry powder Carbon dioxide (CO2)
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. Cool closed containers exposed to fire with water spray.
Hazardous combustion products	:	During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition. Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx) Sulfur oxides
Further information	:	Contain run-off. Remain upwind. In case of fire: Avoid breathing fume.
Special protective equipment for fire-fighters	:	Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	MATERIAL IS A POTENTIAL SENSITIZER. Use personal protective equipment. Ventilate the area.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Do not contaminate surface water.

Methods and materials for containment and cleaning up	:	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container 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 contact with skin and eyes. For personal protection see section 8. May cause sensitization of susceptible persons by skin contact. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.
Conditions for safe storage	:	Keep container tightly closed. Store in a cool well-ventilated dry place.
Further information on storage stability	:	Keep from freezing - product stability may be affected.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection	:	Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe working limits of the selected respirator.
NIOSH approved, air-purifying organic vapor respirator.

Hand protection

Remarks	:	Chemical-resistant gloves should be worn whenever this material is handled. Wear suitable gloves. Rubber gloves Nitrile rubber Gloves should be discarded and replaced if there is any indication of degradation or chemical break-through. Rinse and remove gloves immediately after use. Wash hands with soap and water.
Eye protection	:	Tightly fitting safety goggles
Skin and body protection	:	Chemical resistant apron Impervious clothing
Protective measures	:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid, clear
Physical state	:	liquid
Color	:	Colorless to light yellow
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	4 - 6 Concentration: 10 % Aqueous solution
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available

Flash point	:	250 °F / 121 °C
		Solvent
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	1.088 - 1.108 (68 °F / 20 °C)
		No data available
Density	:	1.10 g/cm3 (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	partly soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Molecular weight	:	No data available
Particle size	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Thermally stable at typical use temperatures.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Polymerization will not occur.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	Decomposition products depend upon temperature, air supply and the presence of other materials.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 6.51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

2-phenoxyethanol:

Acute inhalation toxicity	:	LC50 (Rat, male and female): > 1 mg/l Exposure time: 6 h Test atmosphere: dust/mist Method: OECD Test Guideline 412 GLP: Yes Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Dosage caused no mortality Highest producible concentration.

Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,214 mg/kg GLP: No Assessment: The substance or mixture has no acute dermal toxicity Remarks: Dosage caused no mortality

2-methyl-2H-isothiazol-3-one:

Acute oral toxicity	:	LD50 (Rat, female): 120 mg/kg Method: OPPTS 870.1100 GLP: Yes
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0.11 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: Yes
Acute dermal toxicity	:	LD50 (Rat, male and female): 242 mg/kg Method: OECD Test Guideline 402 GLP: Yes

Skin corrosion/irritation

Causes skin irritation.

Components:

2-phenoxyethanol:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	No

2-methyl-2H-isothiazol-3-one:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 3 minutes to 1 hour of exposure
GLP	:	Yes

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

2-phenoxyethanol:

Species	:	Rabbit

Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	No

2-methyl-2H-isothiazol-3-one:

Remarks	:	Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Components:

2-phenoxyethanol:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.
GLP	:	Yes

2-methyl-2H-isothiazol-3-one:

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	The product is a skin sensitizer, sub-category 1A.
GLP	:	Yes

Test Type	:	Local lymph node assay (LLNA)
Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1A.
GLP	:	Yes

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	The product is a skin sensitizer, sub-category 1A.
GLP	:	Yes

Germ cell mutagenicity

Not classified due to lack of data.

Components:

2-phenoxyethanol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: Yes

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: Yes

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: Yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: Yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male)
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: Yes

Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative
GLP: Yes

Test Type: Cytogenetic assay

Species: Rat (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative
GLP: Yes

2-methyl-2H-isothiazol-3-one:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: Yes

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: Yes

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: Yes

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative
GLP: Yes

Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: Yes

Carcinogenicity

Not classified due to lack of data.

Components:

2-phenoxyethanol:

Species	:	Mouse, male
Application Route	:	Oral
Exposure time	:	2 Years
Dose	:	468 - 898 - 1702 mg/kg bw/day
NOAEL	:	468 mg/kg bw/day
Method	:	OECD Test Guideline 451
Result	:	negative
GLP	:	Yes

Species	:	Mouse, female
Application Route	:	Oral
Exposure time	:	2 Years
Dose	:	586 - 1072 - 2058 mg/kg bw/day
NOAEL	:	586 mg/kg bw/day
Method	:	OECD Test Guideline 451
Result	:	negative
GLP	:	Yes

Species	:	Rat, female
Application Route	:	Oral
Exposure time	:	2 Years
Dose	:	191 - 380 - 795 mg/kg bw/day
NOAEL	:	380 mg/kg bw/day
Method	:	OECD Test Guideline 451
Result	:	negative
GLP	:	Yes

Species	:	Rat, male
Application Route	:	Oral
Exposure time	:	2 Years
Dose	:	124 - 249 - 510 mg/kg bw/day
NOAEL	:	249 mg/kg bw/day
Method	:	OECD Test Guideline 451
Result	:	negative
GLP	:	Yes

2-methyl-2H-isothiazol-3-one:

Species	:	Mouse, male
Application Route	:	Dermal
Exposure time	:	30 month(s)
Dose	:	400 parts per million
Frequency of Treatment	:	3 days/week
Method	:	No information available.
Result	:	negative
GLP	:	No
Remarks	:	Test results on an analogous substance/product.

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	24 month(s)
Dose	:	30 - 100 - 300 parts per million
Method	:	OECD Test Guideline 453
Result	:	negative
GLP	:	Yes
Remarks	:	Test results on an analogous substance/product.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Reproductive toxicity

Not classified due to lack of data.

Components:

2-phenoxyethanol:

Effects on fetal development :

Test Type: Pre-natal
Species: Rat, female
Application Route: Oral
Dose: 100 - 300 - 1000 milligram per kilogram
General Toxicity Maternal: NOAEL: 300 mg/kg body weight
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
GLP: Yes

Test Type: Pre-natal
Species: Rabbit, female
Application Route: Dermal
Dose: 300 - 600 - 1000 milligram per kilogram
General Toxicity Maternal: NOAEL: 300 mg/kg body weight
Teratogenicity: NOAEL: 600 mg/kg body weight
Developmental Toxicity: NOAEL: 600 mg/kg body weight
Embryo-fetal toxicity.: NOAEL: 600 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
GLP: Yes

2-methyl-2H-isothiazol-3-one:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 50 - 200 - 1000 parts per million
General Toxicity Parent: NOAEL: 200 ppm
Fertility: NOAEL: 1,000 ppm
Early Embryonic Development: NOAEL: 200 ppm
Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.
GLP: Yes

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat, female
Application Route: Oral
Dose: 0 - 5 - 20 - 60/40 milligram per kilogram
General Toxicity Maternal: NOAEL: 20 mg/kg bw/day
Teratogenicity: NOAEL: 40 mg/kg bw/day
Developmental Toxicity: NOAEL: 40 mg/kg bw/day
Embryo-fetal toxicity.: NOAEL: 40 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
GLP: Yes

Test Type: Embryo-fetal development
Species: Rabbit, female
Application Route: Oral
Dose: 0 - 3 - 10 - 30 milligram per kilogram
General Toxicity Maternal: NOAEL: 10 mg/kg bw/day
Teratogenicity: NOAEL: 30 mg/kg bw/day
Developmental Toxicity: NOAEL: 30 mg/kg bw/day
Embryo-fetal toxicity.: NOAEL: 30 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
GLP: Yes

STOT-single exposure

May cause respiratory irritation.

Components:

2-phenoxyethanol:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

2-phenoxyethanol:

Species	:	Rat, male and female
NOAEL	:	369 mg/kg
Application Route	:	Oral
Exposure time	:	90 Days
Number of exposures	:	daily
Dose	:	96 - 185 - 369 - 687 - 1514 mg/kg bw/day
Method	:	OECD Test Guideline 408
GLP	:	Yes
Remarks	:	Subchronic toxicity

Species	:	Rat, male and female
NOAEC	:	48.2 mg/m³
Application Route	:	Inhalation
Test atmosphere	:	dust/mist
Exposure time	:	14 Days
Number of exposures	:	6 hours/day, 5 days/week
Dose	:	48,2 - 246 - 1070 mg/m3
Method	:	OECD Test Guideline 412
GLP	:	Yes
Remarks	:	Subacute toxicity

Species	:	Rabbit, male and female
NOAEL	:	>= 500 mg/kg
Application Route	:	Dermal
Exposure time	:	90 Days
Number of exposures	:	5 days/week
Dose	:	50 - 150 - 500 mg/kg bw/day
Method	:	OECD Test Guideline 411
GLP	:	Yes
Remarks	:	Subchronic toxicity

2-methyl-2H-isothiazol-3-one:

Species	:	Rat, male and female
NOAEL	:	225 ppm
LOAEL	:	1000 ppm
Application Route	:	Oral
Exposure time	:	90 d
Number of exposures	:	Continuous
Dose	:	0 - 75 - 225 - 1000 parts per million
Method	:	OECD Test Guideline 408
GLP	:	Yes
Remarks	:	Subchronic toxicity

Species	:	Rat, male and female

NOAEL	:	28.59 mg/kg
LOAEL	:	71.21 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Number of exposures	:	daily
Dose	:	10,03 - 28,59 - 71,21 mg/kg bw/day
Method	:	OECD Test Guideline 407
GLP	:	Yes
Remarks	:	Subacute toxicity

Species	:	Dog, male and female
NOAEL	:	1500 ppm
Application Route	:	Oral
Exposure time	:	90 d
Number of exposures	:	daily
Dose	:	0 - 100 - 400 - 1500 parts per million
Method	:	OECD Test Guideline 409
GLP	:	Yes
Remarks	:	Subchronic toxicity

Aspiration toxicity

Not classified due to lack of data.

Components:

2-phenoxyethanol:

Based on physical properties, not likely to be an aspiration hazard.

2-methyl-2H-isothiazol-3-one:

Based on physical properties, not likely to be an aspiration hazard.

Further information

Product:

Remarks	:	No toxicity data are available for this material.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-phenoxyethanol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 344 mg/l Exposure time: 96 h Test Type: flow-through test Analytical monitoring: Yes

Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: No Method: OECD Test Guideline 202 GLP: No Remarks: Fresh water
Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): 46 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: Yes Method: OECD Test Guideline 201 GLP: Yes Remarks: Fresh water nominal concentration ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: Yes Method: OECD Test Guideline 201 GLP: Yes Remarks: Fresh water nominal concentration
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 23 mg/l Exposure time: 34 d Test Type: flow-through test Analytical monitoring: Yes Method: OECD Test Guideline 210 GLP: Yes Remarks: Fresh water nominal concentration
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9.43 mg/l End point: Reproduction Exposure time: 21 d Test Type: semi-static test Analytical monitoring: Yes Method: OECD Test Guideline 211 GLP: Yes Remarks: Fresh water
Toxicity to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l End point: Respiration inhibition

Exposure time: 30 min
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: Yes
Remarks: Fresh water
nominal concentration

EC50 (Pseudomonas putida): 883.3 mg/l
Exposure time: 17 h
Analytical monitoring: No
Method: DIN 38 412 Part 8
GLP: No
Remarks: Fresh water
nominal concentration

2-methyl-2H-isothiazol-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.77 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: Yes
Method: OECD Test Guideline 203
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.934 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: flow-through test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water

LC50 (Mysidopsis bahia (opossum shrimp)): 1.81 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: Yes
Method: US-EPA OPPTS 850.1035
GLP: Yes
Remarks: salt water

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.158 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201

GLP: Yes
Remarks: Fresh water

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.05 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water

ErC50 (Skeletonema costatum (marine diatom)): > 0.0725 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: salt water

NOEC (Skeletonema costatum (marine diatom)): 0.0725 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: salt water

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 4.93 mg/l
End point: mortality
Exposure time: 98 d
Test Type: flow-through test
Analytical monitoring: Yes
Method: OECD Test Guideline 210
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.044 mg/l
Exposure time: 21 d
Test Type: flow-through test
Analytical monitoring: Yes
Method: OECD Test Guideline 211
GLP: Yes
Remarks: Fresh water

Toxicity to microorganisms : EC50 (activated sludge): 41 mg/l

End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: Yes
Remarks: Fresh water
nominal concentration

Persistence and degradability

Components:

2-phenoxyethanol:

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: Yes

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 15 d
Method: OECD Test Guideline 301A
GLP: Yes

2-methyl-2H-isothiazol-3-one:

Biodegradability : Biodegradation: 98 %
Exposure time: 48 d
Method: Simulation study
Remarks: Considered rapidly degradable in the environment.

Result: Not readily biodegradable.
Biodegradation: 50 %
Exposure time: 29 d
Method: OECD Test Guideline 301B
GLP: Yes

Result: Not readily biodegradable.
Biodegradation: 20 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: Yes

Bioaccumulative potential

Components:

2-phenoxyethanol:

Bioaccumulation	:	Bioconcentration factor (BCF): 0.35 Method: Calculated value
Partition coefficient: n-octanol/water	:	log Pow: 1.2 (73 °F / 23 °C) pH: 7 Method: Regulation (EC) No. 440/2008, Annex, A.8 GLP: Yes

2-methyl-2H-isothiazol-3-one:

Partition coefficient: n-octanol/water	:	log Pow: -0.486 (77 °F / 25 °C) pH: 7 Method: OECD Test Guideline 107 GLP: Yes

Mobility in soil

Components:

2-phenoxyethanol:

Distribution among environmental compartments	:	Koc: 40.74, log Koc: 1.6 Method: OECD Test Guideline 121

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. Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)
Waste from residues	:	The generation of waste should be avoided or minimized

wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
Not regulated as a dangerous good

Hazard and Handling Notes.
Not dangerous cargo
Irritating to skin.
Risk of serious damage to eyes
Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity
Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

2-phenoxyethanol	122-99-6	>= 70 - < 90 %

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

2-phenoxyethanol	122-99-6	>= 70 - < 90
Propylene glycol	57-55-6	> 1

California Prop. 65

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

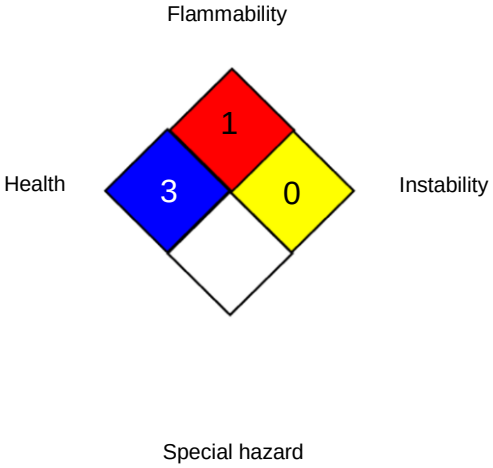
TSCA inventory

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

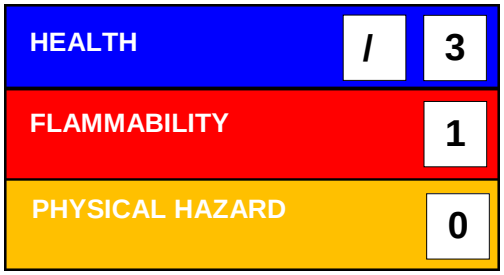
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



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 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

Revision Date : 01/09/2025

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.