

SAFETY DATA SHEET

PREVENTOL P-100 PRESERVATIVE



Version 1.0 Revision Date: 10/12/2020 SDS Number: 215000001929 Date of last issue: -
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : PREVENTOL P-100 PRESERVATIVE
Product code : 00000000056705949
EPA registration number : 39967-61

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
15275-1112 Pittsburgh, United States of America

Responsible Department : +1800LANXESS

Emergency telephone number : Chemtrec (800) 424-9300
International (703) 527-3887
Lanxess Emergency Phone (800) 410-3063

Recommended use of the chemical and restrictions on use

Recommended use : Biocide

SECTION 2. HAZARDS IDENTIFICATION

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

Combustible dust

Acute toxicity (Oral) : Category 3
Acute toxicity (Inhalation) : Category 3
Serious eye damage : Category 1
Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

GHS label elements

Hazard pictograms : 

Signal word : Danger

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Hazard statements : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Toxic if swallowed or if inhaled.
Causes serious eye damage.
May cause respiratory irritation.

Precautionary statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear eye protection/ face protection.

Response:
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
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.

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
bronopol (Solution)	52-51-7	>= 90 - <= 100

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

SECTION 4. FIRST AID MEASURES

If inhaled : Move the victim to fresh air.
If unconscious, place in recovery position and get medical attention immediately.

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- If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Get medical attention.
- In case of skin contact : Wash off with soap and water.
Get medical attention if symptoms appear.
- 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 : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Rinse mouth with water.
Get medical attention.

Most important symptoms and effects, both acute and delayed

- Symptoms : Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
Acute overexposure to this product may cause dizziness, headache, drowsiness, malaise, abdominal pain.
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Effects : Toxic if swallowed or if inhaled.
Causes serious eye damage.
May cause respiratory irritation.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media : Do NOT use water jet.
- Specific hazards during fire-fighting : Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
In a fire or if heated, a pressure increase will occur and the container may burst.
The product can cause dust explosions.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)

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Halogenated compounds

- Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Put on appropriate personal protection equipment.
Do not touch or walk through spilled material.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Remove all sources of ignition.
- 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 : Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Ensure vacuum cleaners are approved for explosible dusts. Do not use compressed air for cleaning.
Move containers from spill area.
Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.
Dispose of wastes in an approved waste disposal facility.
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SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : 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.
Keep away from fire, sparks and heated surfaces.
Do not use sparking tools.
- Conditions for safe storage : Store in accordance with local regulations.
Store in original container protected from direct sunlight in a
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dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Keep container closed when not in use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Use appropriate container to avoid environmental contamination.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.

Recommended storage temperature : < 284 °F / < 140 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : NIOSH approved, air-purifying particulate respirator with N-95 filters.
Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m³ - respirable particles and 10 mg/m³ - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS).

Hand protection

Material : Polyvinyl chloride - PVC
Wearing time : < 60 min

Material : butyl-rubber

Material : Nitrile rubber - NBR
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Tightly fitting safety goggles
and
Face-shield

Skin and body protection : Wear suitable protective clothing.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : crystalline

Colour : White to yellowish.

Odour : slight

Odour Threshold : No data available

pH : 4.7 - 8.5
Concentration: 1 %

Melting point/range : > 320 °F / > 160 °C

Boiling point/boiling range : No data available

Flash point : > 212 °F / > 100 °C
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : May form combustible dust concentrations in air during processing, handling or other means.

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1.894 g/cm³ (68 °F / 20 °C)

Bulk density : 1,230 kg/m³

Solubility(ies)
Water solubility : 280 g/l

Solubility in other solvents : No data available

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

Decomposition temperature : 284 °F / 140 °C

Self-Accelerating decomposition temperature (SADT) : 212 - 230 °F / 100 - 110 °C

Viscosity

 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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 : Dust may form explosive mixture in air.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).

Incompatible materials : Incompatible with oxidizing agents.

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Ingestion

Acute toxicity

Toxic if swallowed or if inhaled.

Components:

bronopol (Solution):

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Acute oral toxicity : LD50 (Rat): 193 - 211 mg/kg
Acute inhalation toxicity : LC50 (Rat, male and female): > 0.588 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Components:

bronopol (Solution):

Species : Rabbit
Remarks : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

bronopol (Solution):

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

bronopol (Solution):

Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

bronopol (Solution):

Genotoxicity in vitro : Test system: Mammalian-Human
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 473

Result: positive

GLP: yes

Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Result: negative

GLP: yes

Genotoxicity in vivo

: Species: Mammalian-Animal

Application Route: Oral

Exposure time: 72 h

Dose: 160 mg/kg

Method: OECD Test Guideline 474

Result: negative

GLP: yes

Species: Mammalian-Animal

Application Route: Oral

Exposure time: 4 d

Method: OECD Test Guideline 486

Result: negative

GLP: yes

Carcinogenicity

Not classified based on available information.

Components:

bronopol (Solution):

Species : Rat, male and female

Application Route : Oral

Exposure time : 104 weeks

Dose : 7 mg/kg body weight

Result : negative

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.

Reproductive toxicity

Not classified based on available information.

Components:

bronopol (Solution):

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Effects on fertility : Species: Rat, male and female
Application Route: Oral
Duration of Single Treatment: 19 Weeks
General Toxicity - Parent: NOAEL: > 40 mg/kg body weight
General Toxicity F1: NOAEL: > 40 mg/kg body weight
Method: OECD Test Guideline 415

STOT - single exposure

May cause respiratory irritation.

Components:

bronopol (Solution):

Exposure routes : Inhalation
Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

bronopol (Solution):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 mg/l
Exposure time: 96 h
Method: EPA OPP 72-1 (Fish Acute Toxicity Test)
GLP: yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.08 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0.25 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.03 mg/l

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Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.06 mg/l
Exposure time: 21 Days
Method: OECD Test Guideline 211
GLP: yes
Remarks: Fresh water

Persistence and degradability

Components:

bronopol (Solution):

Biodegradability : aerobic
Result: Readily biodegradable.
Biodegradation: 51 - 57 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Bioaccumulative potential

Components:

bronopol (Solution):

Bioaccumulation : Bioconcentration factor (BCF): 3.16
Partition coefficient: n-octanol/water : log Pow: -0.42
Method: Calculated value

Mobility in soil

Components:

bronopol (Solution):

Distribution among environmental compartments : Koc: 5

Other adverse effects

No data available

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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

UN/ID No. : UN 3241
Proper shipping name : 2-Bromo-2-nitropropane-1,3-diol
Class : 4.1
Packing group : III
Labels : 4.1



Packing instruction (cargo aircraft) : 457 : 50.00 KG
Packing instruction (passenger aircraft) : 457 : 25.00 KG
Environmentally hazardous : yes



IMDG-Code

UN number : UN 3241
Proper shipping name : 2-BROMO-2-NITROPROPANE-1,3-DIOL

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Class : 4.1
Packing group : III
Labels : 4.1
:



EmS Code : F-J, S-G
Marine pollutant : yes



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

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 3241
Proper shipping name : 2-Bromo-2-nitropropane-1,3-diol

Class : 4.1
Packing group : III
Labels : 4.1
:



ERG Code : 133
Marine pollutant : yes



The U.S. DOT regulations in Appendix B to 49 CFR § 172.101, paragraph 4 permit this material to ship as marine pollutant.

Hazard and Handling Notes. : Combustible., Environmentally hazardous substance., Irritating to skin and eyes., Stow at a cool place, susceptible to heat, Keep separated from foodstuffs

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA 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 : Combustible dust
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

bronopol (Solution) 52-51-7 >= 90 - <= 100

Pennsylvania Right To Know

bronopol (Solution) 52-51-7 >= 90 - <= 100

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.

TSCA inventory

TSCA : This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

FIFRA information

EPA registration number : 39967-61

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word : DANGER

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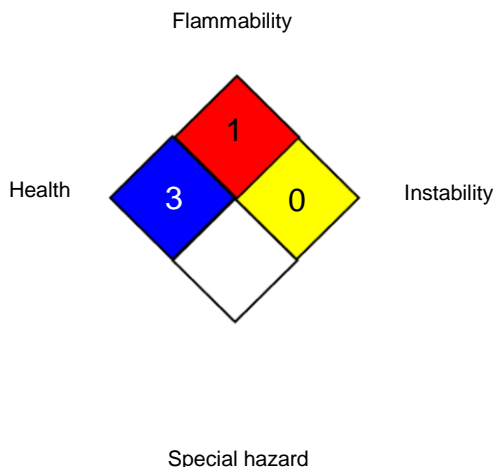
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Hazard statements : Causes irreversible eye damage and skin burns. May be fatal if swallowed. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		2
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 other abbreviations

AICS - Australian Inventory of Chemical Substances; 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) Ef-

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fect 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; 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

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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.