

# Bronopol SDS/MSDS (Safety Data Sheet)

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- \* Product Name: Bronopol
- \* Catalog Number: S4553
- \* CAS Number: 52-51-7
- \* IUPAC Name: 1,3-Propanediol, 2-bromo-2-nitro-

Relevant identified uses and uses advised against

- \* Identified uses: For research and development use only; laboratory chemicals; manufacture of substances.
- \* Uses advised against: Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- \* Company: Selleck Chemicals
- \* TollFree: +1 877 796-6397
- \* Tel: +1 832 582-8158
- \* Fax: +1 832 582-8590

Emergency telephone number

- \* Emergency phone #: +1 832 582-8158

## 2. HAZARDS IDENTIFICATION

### 2.1 GHS classification in accordance with 29 CFR 1910 (OSHA HCS):

- Flammable solids: Category 1. H228
- Acute toxicity (oral): Category 3. H301
- Acute toxicity (oral): Category 4. H302
- Acute toxicity (dermal): Category 1. H310
- Acute toxicity (dermal): Category 4. H312
- Skin corrosion: Category 1. H314
- Skin irritation: Category 2. H315
- Serious eye damage: Category 1. H318
- Acute toxicity (inhalation): Category 1. H330
- Acute toxicity (inhalation): Category 3. H331
- Specific target organ toxicity (single exposure): Category 3. H335
- Specific target organ toxicity (single exposure): Category 1. H370
- Specific target organ toxicity (repeated exposure): Category 2. H373
- Acute aquatic toxicity: Category 1. H400
- Chronic aquatic toxicity: Category 1. H410
- Chronic aquatic toxicity: Category 2. H411

### 2.2 GHS Label elements, including precautionary statements

**Hazard Pictogram(s)**



**Signal Word**

Danger

**Hazard statement(s)**

H228: Flammable solid  
H301: Toxic if swallowed  
H302: Harmful if swallowed  
H310: Fatal in contact with skin  
H312: Harmful in contact with skin  
H314: Causes severe skin burns and eye damage  
H315: Causes skin irritation  
H318: Causes serious eye damage  
H330: Fatal if inhaled  
H331: Toxic if inhaled  
H335: May cause respiratory irritation  
H370: Causes damage to organs  
H373: May causes damage to organs through prolonged or repeated exposure  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects  
H411: Toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

None.

**Prevention**

P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting equipment.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands thoroughly after handling.  
P264+P265: Wash hands thoroughly after handling. Do not touch eyes.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P284: [In case of inadequate ventilation] Wear respiratory protection.

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Response</b> | <p>P301+P316: IF SWALLOWED: Get emergency medical help immediately.</p> <p>P301+P317: IF SWALLOWED: Get medical help.</p> <p>P301+P330: IF SWALLOWED: Rinse mouth.</p> <p>P302+P352: IF ON SKIN: wash with plenty of water.</p> <p>P302+P361: IF ON SKIN: Take off immediately all contaminated clothing.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P354: IF IN EYES: Immediately rinse with water for several minutes.</p> <p>P308+P316: IF exposed or concerned: Get emergency medical help immediately.</p> <p>P316: Get emergency medical help immediately.</p> <p>P317: Get emergency medical help.</p> <p>P319: Get medical help if you feel unwell.</p> <p>P320: Specific treatment is urgent.</p> <p>P321: Specific treatment (see information on this label and safety datasheet)).</p> <p>P330: Rinse mouth.</p> <p>P331: Do NOT induce vomiting.</p> <p>P332+P317: If skin irritation occurs: Get medical help.</p> <p>P338: Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P354: Immediately rinse with water for several minutes.</p> <p>P361+P364: Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P362+P364: Take off contaminated clothing and wash it before reuse.</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P370+P378: In case of fire: Use water spray, dry chemical, carbon dioxide, or appropriate foam to extinguish.</p> <p>P391: Collect spillage.</p> |
| <b>Storage</b>  | <p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Disposal</b> | <p>P501: P501 Dispose of contents/ container to an approved waste disposal plant.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### 2.3 Other hazards

None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Product name: Bronopol  
CAS Number: 52-51-7  
PubChem CID: 2450  
Molecular formula: C<sub>3</sub>H<sub>6</sub>BrNO<sub>4</sub>  
Molecular weight: 199.99 g/mol  
IUPAC name: 2-bromo-2-nitropropane-1,3-diol

### 3.2 Mixtures

Not applicable (pure substance).

## 4. FIRST-AID MEASURES

### 4.1 Description of first aid measures

Inhalation: Fresh air, rest.

Skin contact: Remove contaminated clothes. Rinse skin with plenty of water or shower.

Eye contact: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

Ingestion: Rinse mouth. Refer for medical attention .

#### **4.2 Most important symptoms and effects, both acute and delayed**

See Section 11 (Toxicological Information).

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Contact a poison control center or physician for severe exposure.

### **5. FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

Suitable: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, water spray.

Unsuitable: High-pressure water jet (may spread fire).

#### **5.2 Specific hazards arising from the substance or mixture**

**Excerpt from ERG Guide 133 [Flammable Solids]:**

SMALL FIRE: Dry chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam.

LARGE FIRE: Water spray, fog or regular foam. If it can be done safely, move undamaged containers away from the area around the fire.

FIRE INVOLVING METAL PIGMENTS OR PASTES (E.G. "ALUMINUM PASTE"): Aluminum Paste fires should be treated as a combustible metal fire. Use DRY sand, graphite powder, dry sodium chloride-based extinguishers or class D extinguishers. Also, see ERG Guide 170.

FIRE INVOLVING TANKS, RAIL TANK CARS OR HIGHWAY TANKS: Cool containers with flooding quantities of water until well after fire is out. For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks in direct contact with flames. (ERG, 2024)

Use water spray, powder, alcohol-resistant foam, carbon dioxide.

Wear self contained breathing apparatus for fire fighting if necessary.

Use water spray to cool unopened containers.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Powder, alcohol-resistant foam, water spray, carbon dioxide.

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Fight fire from upwind. Cool containers with water spray until fire is extinguished.

Flash point: 167 °C

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

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective equipment (see Section 8).

Avoid breathing dust/vapor. Ensure adequate ventilation.

Evacuate personnel to safe areas. Keep people away from and upwind of spill.

WARNING: Highly toxic — only trained personnel should handle spills.

## 6.2 Environmental precautions

Prevent product from entering drains, waterways, or soil.

Contain spill with inert absorbent material.

## 6.3 Methods and materials for containment and cleaning up

· CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.

· Keep unauthorized personnel away.

· Stay upwind, uphill and/or upstream.

· ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.

· Do not touch or walk through spilled material.

Small Dry Spill

· With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Large Spill

· Wet down with water and dike for later disposal.

· Prevent entry into waterways, sewers, basements or confined areas.

### Excerpt from ERG Guide 133 [Flammable Solids]:

IMMEDIATE PRECAUTIONARY MEASURE: Isolate spill or leak area for at least 25 meters (75 feet) in all directions.

LARGE SPILL: Consider initial downwind evacuation for at least 100 meters (330 feet).

FIRE: If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. (ERG, 2024)

Immediate precautionary measure

· Isolate spill or leak area for at least 25 meters (75 feet) in all directions.

Large Spill

· Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

· If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations ... Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations ... .

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: P2 filter respirator for harmful particles).

SRP: The most favorable course of action is to use an alternative chemical product with less inherent propensity for occupational exposure or environmental contamination. Recycle any unused portion of the material for its approved use or return it to the manufacturer or supplier. Ultimate disposal of the chemical must consider: the material's impact on air quality; potential migration in soil or water; effects on animal, aquatic, and plant life; and conformance with environmental and public health regulations.

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

SRP: The scientific literature for the use of contact lenses by industrial workers is inconsistent. The benefits or detrimental effects of wearing contact lenses depend not only upon the substance, but also on factors including the form of the substance, characteristics and duration of the exposure, the uses of other eye protection equipment, and the hygiene of the lenses. However, there may be individual substances whose irritating or corrosive properties are such that the wearing of contact lenses would be harmful to the eye. In those specific cases, contact lenses should not be worn. In any event, the usual eye protection equipment should be worn even when contact lenses are in place.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

#### **Excerpt from ERG Guide 133 [Flammable Solids]:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area. Do not touch or walk through spilled material.

SMALL DRY SPILL: With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

LARGE SPILL: Wet down with water and dike for later disposal. Prevent entry into waterways, sewers, basements or confined areas. (ERG, 2024)

Fireproof. Separated from food and feedstuffs and incompatible materials. See Chemical Dangers. Dry. Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.

Keep container tightly closed in a dry well-ventilated place.

Separated from food and feedstuffs and incompatible materials. Dry. Well closed. Keep in a well-ventilated room.

Keep away from heat, sparks, and open flames. Use explosion-proof equipment.

### **7.2 Conditions for safe storage, including any incompatibilities**

Fireproof. Separated from food and feedstuffs and incompatible materials. See Chemical Dangers. Dry. Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.

Keep container tightly closed in a dry well-ventilated place.

Separated from food and feedstuffs and incompatible materials. Dry. Well closed. Keep in a well-ventilated room.

Store away from incompatible materials (see Section 10).

[Note: Specific storage temperature not available in public databases. Refer to supplier Certificate of Analysis (COA) for exact storage conditions.]

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure controls

#### 8.1.1 Occupational exposure limits (OEL)

OSHA PEL: Not established.

ACGIH TLV: Not established.

NIOSH REL: Not established.

No occupational exposure limit values are established for this substance.

Use the lowest feasible exposure level (ALARA principle).

#### 8.1.2 Appropriate engineering controls

Use only in a chemical fume hood or with local exhaust ventilation.

Ensure adequate ventilation to keep airborne concentrations below exposure limits.

### 8.2 Individual protection measures

#### 8.2.1 Eye/face protection

Wear chemical safety goggles and face shield.

#### 8.2.2 Skin protection

Wear protective gloves. Recommended material: Nitrile rubber.

Wear suitable protective clothing (lab coat).

#### 8.2.3 Respiratory protection

Wear NIOSH-approved respirator with appropriate cartridges. SCBA for high concentrations.

#### 8.2.4 Thermal hazards

Not applicable.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance: 2-bromo-2-nitropropane-1,3-diol appears as white crystals. Ignite easily and burn readily. May detonate under strong shock. Decomposes when heated, evolving toxic gases. Toxic by skin absorption, inhalation or ingestion.

b) Odor: Odorless

c) Odor threshold: No data available

d) pH: No data available

e) Melting point/freezing point: 266 to 271 °F (NTP, 1992)

f) Initial boiling point and boiling range: 305.1 °F at 760 mmHg (NTP, 1992)

g) Flash point: 167 °C

h) Evaporation rate: No data available

i) Flammability (solid, gas): No data available

j) Upper/lower flammability or explosive limits: No data available

k) Vapor pressure: 1.2601e-05 mmHg at 68 °F (NTP, 1992)

- l) Vapor density: No data available
- m) Relative density: Relative density (water = 1): 1.9
- n) Water solubility: greater than or equal to 100 mg/mL at 63 °F (NTP, 1992)
- o) Partition coefficient: n-octanol/water: Log P (n-octanol/water): -0.6
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

## 9.2 Other information

Topological Polar Surface Area (TPSA): 86.3 Å<sup>2</sup>  
Complexity: 107

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards identified under normal handling conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions under normal conditions.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames, direct sunlight, and moisture.  
Avoid strong oxidizing agents, strong acids, and strong bases.

### 10.5 Incompatible materials

An aqueous solution of bronopol degrades in the presence of cupric and ferric ions as well as aluminum and tin metals.  
Incompatible materials: Strong oxidizing agents, strong bases, strong reducing agents.

### 10.6 Hazardous decomposition products

Thermal decomposition may produce: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide (HBr).  
See also Section 5 (Fire-fighting measures) for combustion products.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity:

No acute toxicity data available.

#### Skin corrosion/irritation:

Causes severe skin burns and eye damage (H314).

**Serious eye damage/eye irritation:**

Causes serious eye damage (H318).

**Respiratory or skin sensitization:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity:**

No data available.

**Reproductive toxicity:**

No data available.

**Specific target organ toxicity (single exposure):**

H370, H373

**Specific target organ toxicity (repeated exposure):**

No data available.

**Aspiration hazard:**

No data available.

## 11.2 Additional information

**Carcinogen classification:**

No indication of carcinogenicity (not listed by IARC). (L135)

**Exposure routes:**

The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

Oral (A2881) ; inhalation (A2881) ; dermal (A2881)

**Signs and symptoms of exposure:**

Cough. Sore throat.

Redness.

Redness. Stinging sensation. Pain. Burns.

Sore throat. Tingling sensation.

Data source: Hazardous Substances Data Bank (HSDB) via PubChem.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

LD50; Species: *Anas platyrhynchos* (Mallard duck) oral 509.5 mg/kg /99.4% a.i./ /from table/

LC50; Species: *Anas platyrhynchos* (Mallard duck) oral >10,000 ppm /in the diet/ for 8 days /100% a.i./ /from table/

LC50; Species: *Colinus virginianus* (Northern bobwhite) oral 4487.6 ppm /in the diet/ /8 days /100% a.i./ /from table/

LC50; Species: *Oncorhynchus mykiss* (Rainbow trout); Conditions: flow through; Concentration: 41.6 ppm for 96 hr (95% confidence interval: 36-45 ppm) /100% a.i./ /from table/

For more Ecotoxicity Values (Complete) data for BRONOPOL (9 total), please visit the HSDB record page.

The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.

Bronopol's production and use as a preservative for cosmetics and pharmaceuticals may result in its release to the environment through various waste streams; its use as an agricultural bacteriostat will result in its direct release to the environment. If released to air, a vapor pressure of  $1.26 \times 10^{-5}$  mm Hg at 20 °C indicates bronopol will exist in both the vapor and particulate phases in the atmosphere. Vapor-phase bronopol will be degraded in the atmosphere

by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 11 days. Particulate-phase bronopol will be removed from the atmosphere by wet and dry deposition. Bronopol rapidly photodegrades at pH 4 exhibiting a photolysis half-life of 24 hours in water; u

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

Log P (n-octanol/water): -0.6

Low potential for bioaccumulation (Log P < 3).

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available.

**12.6 Other adverse effects**

This substance is classified as hazardous to the aquatic environment.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste Treatment Methods: Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers and do not mix with other waste. Handle uncleaned containers in the same manner as the product itself.

**14. TRANSPORT INFORMATION****14.1 UN number**

UN 3241

**14.2 UN proper shipping name**

2-Bromo-2-nitropropane-1,3-diol

**14.3 Transport hazard class(es)**

Class 4.1

IMO classification: Class 4.1

DOT label: Flammable Solid

**14.4 Packing group**

Packing group III

**14.5 Environmental hazards**

Marine pollutant: Yes (classified as environmentally hazardous per GHS).

**14.6 Special precautions for user**

Transport in original packaging. Ensure containers are tightly sealed.

For bulk or commercial quantities, consult applicable transport regulations (DOT, IATA, IMDG).

DOT Emergency Response Guide (ERG) number: 133

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

Not applicable.

### **15. REGULATORY INFORMATION**

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

US EPA / TSCA: Subject to EPA TSCA regulations

EU ECHA / REACH: Registered (REACH Active)

##### **SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### **SARA 313 Components:**

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.

##### **SARA 311/312 Hazards:**

Acute (short-term) health hazard

Chronic (long-term) health hazard

Environmental hazard

Fire hazard

##### **Massachusetts Right To Know Components:**

This material contains components subject to the Massachusetts Right to Know Act. See Section 2 for hazard classification.

##### **Pennsylvania Right To Know Components:**

This material contains components subject to the Pennsylvania Right to Know Act. See Section 2 for hazard classification.

##### **New Jersey Right To Know Components:**

This material contains components subject to the New Jersey Right to Know Act. See Section 2 for hazard classification.

##### **California Prop. 65 Components:**

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

##### **Other regulatory listings:**

- The Australian Inventory of Industrial Chemicals: Chemical: 1,3-Propanediol, 2-bromo-2-nitro-
- Status Regulation (EC): 2002/2076
- FIFRA Requirements: Residues of 2-ethyl-1-hexanol are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest. Use: In-can preser
- FDA Requirements: 2-Bromo-2-nitro-1,3-propanediol is an indirect food additive for use only as a component of adhesives. Limit: For use only as an antibacterial preservative.

#### **15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this substance.

For research-use-only compounds, no CSA is required under REACH Annex I.

## **16. OTHER INFORMATION**

Revision Date: 2026/09/09

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product.

Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.