

## SAFETY DATA SHEET

Preparation Date: 11/13/2018

Revision Date: 11/13/2018

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** B2294  
**Product Name:** 2-BROMO-2-NITRO-1,3-PROPANEDIOL

#### Other means of identification

**Synonyms:** 2-Bromo-2-nitropropan-1,3-diol  
 2-Bromo-2-nitropropane-1,3-diol  
 2-Bronopol  
 Bronidiol  
 Bronopol

**CAS #:** 52-51-7  
**RTECS #** TY3385000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable solids	Category 2

#### Label elements

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## Danger

### Hazard statements

Toxic if swallowed  
Toxic if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation  
May cause an allergic skin reaction  
Flammable solids



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

May be harmful in contact with skin

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves  
Wear protective clothing  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Contaminated work clothing must not be allowed out of the workplace  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/.../equipment

### **Precautionary Statements - Response**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.  
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.  
IF ON SKIN: Wash with plenty of water  
Take off contaminated clothing and wash it before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth

### **Precautionary Statements - Storage**

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

### **Precautionary Statements - Disposal**

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Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
2-Bromo-2-nitro-1,3-propanediol	52-51-7	100

### 4. FIRST AID MEASURES

#### First aid measures

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Toxic by inhalation. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Centre immediately.

**Ingestion:** Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

**Symptoms**

- Causes serious eye irritation
- Moderate eye irritation
- Causes skin irritation
- Moderate skin irritation
- May cause an allergic skin reaction
- Irritating to respiratory system
- May cause nausea and vomiting

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

**Notes to Physician:** Treat symptomatically.

#### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray mist or foam.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream as it may scatter

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and spread fire.

### Specific hazards arising from the chemical

**Hazardous Combustion Products:**

Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides.  
Hydrogen bromide.

**Specific hazards:**

Flammable solid.

### Special Protective Actions for Firefighters

**Specific Methods:**

For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment**

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe dust. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

**Incompatible Materials:**

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Strong oxidizing agents  
Strong bases  
Strong reducing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
2-Bromo-2-nitro-1,3-propanediol	52-51-7	None	None	None	None

##### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2-Bromo-2-nitro-1,3-propanediol	52-51-7	None	None	None	None

##### Australia and Mexico

Components	CAS-No.	Australia	Mexico
2-Bromo-2-nitro-1,3-propanediol	52-51-7	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields.
- Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves
- Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical state:</b> Solid	<b>Appearance:</b> Crystalline.	<b>Color:</b> White. Beige.
<b>Odor:</b> Odorless.	<b>Taste</b> No information available.	<b>Formula:</b> C3H6BrNO4
<b>Molecular/Formula weight (g/mole):</b> 199.99	<b>Flammability:</b> Flammable solid	<b>Flashpoint (°C/°F):</b> 167 °C/333 °F
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 130-133 °C/266-271 °F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> No information available	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> log Kow = -0.64	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in Water Soluble in Alcohol Soluble in ethyl acetate Slightly soluble in chloroform Slightly soluble in Acetone Slightly soluble in Ether Slightly soluble in Benzene	

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Exposure to moisture. Exposure to moist air. Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents  
Strong bases  
Strong reducing agents

**Hazardous decomposition products:** Carbon monoxide. Hydrogen Bromide. Nitrogen oxides (NOx).

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**Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**Component Information**

2-Bromo-2-nitro-1,3-propanediol	
CAS-No.	52-51-7

- LD50/oral/rat** = 180 mg/kg Oral LD50 Rat
- LD50/oral/mouse** = No information available
- LD50/dermal/rabbit** = >2000 mg/kg
- LD50/dermal/rat** = 1600 mg/kg LD50 dermal Rat
- LC50/inhalation/rat** = > 5 g/m<sup>3</sup> Inhalation LC50 Rat 6 hr; 800 mg/m<sup>3</sup> Inhalation LC50 Rat 4 hr
- LC50/inhalation/mouse** = No information available
- Other LD50 or LC50 information** = No information available

**Product Information**

**LD50/oral/rat =**

**VALUE- Acute Tox Oral = 180 mg/kg**

**LD50/oral/mouse =**

**Value - Acute Tox Oral = No information available**

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal = > 2000 mg/kg**

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal = 1600 mg/kg**

**LC50/inhalation/rat**

**VALUE-Vapor = No information available**

**VALUE-Gas = No information available**

**VALUE-Dust/Mist = 0.8 mg/l (4-hr.)**

**LC50/Inhalation/mouse**

**VALUE-Vapor = No information available**

**VALUE - Gas = No information available**

**VALUE - Dust/Mist = No information available**

**Symptoms**

**Skin Contact:**

Causes skin irritation. Moderately irritating to the skin. May be harmful in contact with skin.

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**Eye Contact:** Causes serious eye irritation. Moderately irritating to the eyes.

**Inhalation** Toxic by inhalation. Irritating to respiratory system.

**Ingestion** Toxic if swallowed. Ingestion may cause nausea, vomiting. May affect respiration (dyspnea - difficulty breathing and shortness of breath). May affect urinary system (kidneys). May affect respiration (dyspnea, respiratory depression).

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis).

**Sensitization:** May cause sensitization by skin contact.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
2-Bromo-2-nitro-1,3-propane diol	52-51-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** Respiratory system.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** Potential for bioconcentration in aquatic organisms is low.



**Mobility:** It is expected to have very high mobility based on estimated Koc.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Bromo-2-nitro-1,3-propanedi ol	52-51-7	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1  
**Subsidiary Class:** No information available  
**Packing group:** III  
**Emergency Response Guide Number:** 133  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** 46, IB8, IP3  
**Symbol(s):** No information available  
**Description:** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III

#### TDG (Canada)

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No Information available  
**Description:** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III

#### ADR

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Special Provisions:** 638  
**Description:** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III, ENVIRONMENTALLY HAZARDOUS

#### IMO / IMDG

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1

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**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-J  
**Description** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III, Marine pollutant

**RID**

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Special Provisions** 638  
**Description:** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III, ENVIRONMENTALLY HAZARDOUS

**ICAO**

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III  
**Special Provisions** A20

**IATA**

**UN-No:** UN3241  
**Proper Shipping Name:** 2-Bromo-2-nitropropane-1,3-diol  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 3L  
**Special Provisions** No information available  
**Description:** UN3241, 2-Bromo-2-nitropropane-1,3-diol, 4.1, III

**15. REGULATORY INFORMATION**

**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Present ACTIVE	Present KE-03691	Present	Present (2)-325	Present	Present	Present 200-143-0

**U.S. Regulations**

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Not Listed	Not Listed	Not Listed	Not Listed

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## CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
2-Bromo-2-nitro-1,3-propanediol	52-51-7	None	None	None	None	None

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

## Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Dam. 1: H318 Causes serious eye damage.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.; Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to

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		aquatic life. (M Factor: 10)603-085-00-8
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EU - CLP (1272/2008)

**R-phrase(s)**

R50 - Very toxic to aquatic organisms.  
R41 - Risk of serious damage to eyes.  
R21/22 - Harmful in contact with skin and if swallowed.  
R37/38 - Irritating to respiratory system and skin.

**S -phrase(s)**

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Xn; R21/22 Xi; R37/38-41 N; R50	2.5%≤C N; R50	S: (2)-26-36/37/39-61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Xn - Harmful.  
Xi - Irritant.  
N - Dangerous for the environment.



**16. OTHER INFORMATION**

Preparation Date: 11/13/2018  
Revision Date: 11/13/2018  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**

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