

## SAFETY DATA SHEET

Preparation Date: 04/10/2015

Revision Date: 07/25/2018

Revision Number: G2

### 1. IDENTIFICATION

**Product identifier**

**Product code:** DE139  
**Product Name:** DEXTROMETHORPHAN HYDROBROMIDE, MONOHYDRATE, USP

**Other means of identification**

**Synonyms:** (9alpha,13alpha,14alpha)-3-methoxy-17-methyl-morphinan, hydrobromide monohydrate  
 3-Methoxy-17-methyl-9-alpha  
 13-alpha, 14-alpha-morphinan  
 Dextromethorphan hydrobromide monohydrate  
 Dextromethorphani hydrobromidum  
 Demorphan hydrobromide  
 D-Methorphan hydrobromide monohydrate  
 DXM

**CAS #:** 6700-34-1  
**RTECS #** QD0227600  
**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 4
Serious eye damage/eye irritation	Category 2B
Specific target organ toxicity (single exposure)	Category 3

**Label elements**

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 DEXTROMETHORPHAN  
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**Warning****Hazard statements**

Harmful if swallowed

Causes eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

**Precautionary Statements - Storage**

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

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	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.

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

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

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention. Call a physician immediately.

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

**Symptoms** Causes eye irritation  
Mild eye irritation  
Irritating to respiratory system  
Central nervous system effects  
Drowsiness  
Dizziness  
Headache  
Confusion  
Irritability  
Nervousness  
May cause digestive (gastrointestinal) tract irritation  
Ingestion of large amounts may cause nausea, vomiting, abdominal pain  
Blurred vision  
Pupillary dilation

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

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides. Hydrogen Bromide Gas.

**Specific hazards:** May be combustible at high temperatures. As with most organic solids, fire is possible at elevated temperatures.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. 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. Use appropriate tools to put the spilled solid in a suitable waste disposal container. 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. Avoid dust formation. Keep away from incompatible materials. Remove all sources of ignition. All equipment used when handling the product must be grounded.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. 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. Sensitive to light. Store in light-resistant containers. Store away from incompatible materials. Store in a segregated and approved area.

#### **Incompatible Materials:**

Oxidizing agents  
Alkalis

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Dextromethorphan Hydrobromide,	6700-34-1	None	None	None	None

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Monohydrate					
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### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	None	None	None	None

### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

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:** Safety glasses with side-shields or Goggles
- Skin and body protection:** Long sleeved clothing  
Gloves
- Respiratory protection:** Effective dust mask. 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

<b>Physical state:</b> Solid	<b>Appearance:</b> Crystalline powder.	<b>Color:</b> White. Off-white.
<b>Odor:</b> Slight.	<b>Taste</b> No information available.	<b>Formula:</b> C18H25NO-HBr-H2O
<b>Molecular/Formula weight (g/mole):</b> 370.32 g/mol	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> No information available.
<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

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**Upper Explosion Limit (%):**  
No information available

**Melting point/range(°C/°F):**  
122-128°C/ 251.6-262.4°F

**Decomposition temperature(°C/°F):**  
No information available

**Boiling point/range(°C/°F):**  
No information available

**Bulk density:**  
No information available

**Density (g/cm3):**  
No information available

**Specific gravity:**  
No information available

**pH:**  
5.2-6.5 (1% soln.)

**Vapor pressure @ 20°C (kPa):**  
No information available

**Evaporation rate:**  
No information available

**Vapor density:**  
No information available

**VOC content (g/L):**  
No information available

**Odor threshold (ppm):**  
No information available

**Partition coefficient  
(n-octanol/water):**  
1.59 (pH 7.4)

**Viscosity:**  
No information available

**Miscibility:**  
No information available

**Solubility:**  
Soluble in Methanol  
Partially soluble in cold water  
Freely soluble in Ethyl alcohol  
Freely soluble in Chloroform  
Insoluble in Ether

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents  
Reactive with alkalis

### Chemical stability

**Stability:** Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.

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

**Conditions to avoid:** Heat. Exposure to light. Avoid dust formation. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Alkalis

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

### 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:**  
Inhalation. Ingestion.

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## Acute Toxicity

### Component Information

Dextromethorphan Hydrobromide, Monohydrate	
CAS-No.	6700-34-1

**LD50/oral/rat** = 350 mg/kg Oral LD50 Rat(for anhydrous form CAS number 125-69-9)  
**LD50/oral/mouse** = 165 mg/kg Oral LD50 Mouse Rat(for anhydrous form CAS number 125-69-9)  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 350 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 165 mg/kg

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Causes eye irritation. Mild eye irritation.

**Inhalation** May cause respiratory irritation.

**Ingestion** May cause gastrointestinal tract irritation with stomach pain, severe nausea or vomiting, difficulty in urination. May affect behavior/central nervous system(headache, drowsiness or dizziness, unusual excitation, confusion, nervousness or irritability, shakiness and unsteady walk, coma, toxic psychosis (hyperactivity, visual and auditory hallucinations), muscle contraction of spasticity, rigidity, somnolence, convulsions, ataxia), respiration (respiratory depression, dyspnea), eyes/vision (blurred vision, pupillary dilation).

**Aspiration hazard** No information available.

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

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

**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
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	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** No information available.

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

**Target Organs:** No information available.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Dextromethorphan Hydrobromide, Monohydrate - 6700-34-1*

**Freshwater Fish Species Data:** 4.9 mg/l, 96 hours LC50 Rainbow Trout

**Persistence and degradability:** Not inherently biodegradable

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

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**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
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	None	None	None	None

**14. TRANSPORT INFORMATION****DOT**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan hydrobromide)  
**Hazard Class:** 9  
**Subsidiary Class:** No information available  
**Packing group:** III  
**Emergency Response Guide Number:** 171  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions Symbol(s):** 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33, 8  
 [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.  
**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, Marine pollutant

**TDG (Canada)**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan hydrobromide)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No Information available  
**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

**ADR**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan hydrobromide)  
**Hazard Class:** 9  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Special Provisions Description:** 274, 335, 375, 601  
 UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III (DEXTROMETHORPHAN HYDROBROMIDE, MONOHYDRATE)

**IMO / IMDG**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan

Product code: DE139

**Product name:**  
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**Hazard Class:** hydrobromide)  
**Subsidiary Risk:** 9  
**Packing Group:** No information available  
**Marine Pollutant:** III  
**EMS:** No information available  
**Special Provisions:** F-A  
**Description:** 274, 335, 966, 967, 969  
 UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (DEXTROMETHORPHAN HYDROBROMIDE, MONOHYDRATE), 9, III, Marine  
 pollutant

**RID**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan hydrobromide)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Special Provisions:** 274, 335, 375, 601  
**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III (DEXTROMETHORPHAN HYDROBROMIDE, MONOHYDRATE)

**ICAO**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan hydrobromide)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III  
**Special Provisions:** A158, A97, A179, A197

**IATA**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (dextromethorphan hydrobromide)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 9L  
**Special Provisions:** No information available  
**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

**15. REGULATORY INFORMATION**

**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Dextromethorphan Hydrobromide, Monohydrate</i>	6700-34-1	Not Listed	Not present	Not present	Present (9)-845 (9)-2284	Present	Present	Not present

**U.S. Regulations**

**Product code:** DE139

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 USP

**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:
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	Not Listed	Not Listed	Not Listed	Not Listed

**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
<i>Dextromethorphan Hydrobromide, Monohydrate</i>	6700-34-1	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
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	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

**WHMIS 1988 Hazard Class**

D1B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	Not listed

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Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	Not listed

### EU Classification

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

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1	

#### EU - CLP (1272/2008)

#### R-phrase(s)

R22 - Harmful if swallowed.

#### S-phrase(s)

S46 - If swallowed, seek medical advice immediately and show this container or label.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Dextromethorphan Hydrobromide, Monohydrate	6700-34-1		No information	

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

#### Indication of danger:

Xn - Harmful.

Xn



## 16. OTHER INFORMATION

Preparation Date: 04/10/2015  
Revision Date: 07/25/2018  
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

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completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**

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