Section 1. Product and Company Identification

Product Name: Dextromethorphan Hydrobromide Hydrate
Product ID: D1792
Chemical Name: ( )-3-Methoxy-N-methylmorphinon; delta-Methorphan

Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification: Not a dangerous substance according to GHS.

GHS Label elements including precautionary statements

Pictogram

Signal word

Hazard and precautionary statements
Hazard Statement: Not a hazardous substance or mixture.
Precautionary Statement: Not a hazardous substance or mixture.

HMIS Classification
Health Hazard: 0
Chronic Health Hazard: *
Flammability: 0
Physical Hazard: 0

NFPA Rating
Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

Potential Health Effects
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

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### Section 3. Composition/Information on Ingredients

**Substances**

<table>
<thead>
<tr>
<th>Formula</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₁₈H₂₅NO • HBr • H₂O</td>
<td>6700-34-1</td>
</tr>
</tbody>
</table>

**Formula Wt.** 370.3

**EC No.**

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### Section 4. First Aid Measures

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Flush eyes with water as a precaution.

**Skin Contact**

Wash off with soap and plenty of water.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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### Section 5. Firefighting Measures

**Flash Point**

Not available.

**Extinguishing Media**

Water spray, alcohol-resistant foam, dry chemical powder, or carbon dioxide.

**Firefighting Procedures**

Wear self-contained breathing apparatus for firefighting if necessary.

**Unusual Fire Hazards**

Carbon oxides, nitrogen oxides (NOx), hydrogen bromide gas.

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### Section 6. Accidental Release Measures

**Personal Precautions**

Avoid dust formation. Avoid breathing vapors, mist, or gas.

**Environmental Precautions**

Do not let product enter drains.

**Methods and materials for containment and cleanup**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

**Handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient

**Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides, hydrogen bromide gas.

**Other Remarks**

None.
Section 8. Exposure Controls / Personal Protection

Personal protective equipment

CONTROL PARAMETERS
Contains no substances with occupational exposure limit values.

General industrial hygiene practice.

PERSONAL PROTECTIVE
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection
Handle with gloves. 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.

Body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>White powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Melting Point</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>116°C-120°C</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble in water (15mg/mL)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Ignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lower explosion limit</th>
<th>Autoignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper explosion limit</th>
<th>Vapor pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water solubility</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble in water (15mg/mL)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative vapor density</th>
<th>Evaporation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

Stability
Stable under recommended storage conditions

Materials To Avoid
Keep away from heat and strong oxidizing agents.

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides, hydrogen bromide gas.
Section 11. Toxicological Information

Oral LD50  Not available.

Inhalation LC50 Not available.

Dermal LD50 Not available.

Other information on acute toxicity Not available.

Skin corrosion/irritation Not available.

Serious eye damage/irritation Not available.

Respiratory or skin sensitization Not available.

Germ cell mutagenicity Not available.

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Synergistic effects Not available.

Specific organ toxicity single exposure (GHS) Not available.

Specific organ toxicity repeated exposure (GHS) Not available.

Additional Information RTECS: Not available

Teratogenicity Not available.

Signs and symptoms of exposure Not available.

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

Carcinogenicity

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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
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.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

PBT and vPvB assessment not available as chemical safety assessment not required/not
Section 13. Disposal Considerations

Waste Disposal
- Dispose of material according to all federal, state, and local regulations.
- Offer surplus and non-recyclable solutions to a licensed disposal company.

Section 14. Transport Information

DOT (US) Not dangerous goods.
IATA Not dangerous goods.
IMDG Not dangerous goods.

Further Information

Section 15. Regulatory Information

Reach No.

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

SARA 313 Components 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.

SARA 311/312 Components No SARA Hazards.

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

Pennsylvania Right To Know Components Dextromethorphan Hydrobromide Hydrate CAS #: 6700-34-1

New Jersey Right To Know Components Dextromethorphan Hydrobromide Hydrate CAS #: 6700-34-1

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.

Section 16. Other Information

Other information The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.