### Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Doxapram Hydrochloride Hydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product ID</td>
<td>D5992</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>LKT Laboratories, Inc</td>
</tr>
<tr>
<td>(Synonyms)</td>
<td>545 Phalen Blvd.</td>
</tr>
<tr>
<td></td>
<td>St. Paul, MN 55130 USA</td>
</tr>
<tr>
<td></td>
<td>Ph: 651-644-8424 Fax: 651-644-8357</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.lktlabs.com">www.lktlabs.com</a> - <a href="mailto:getinfo@lktlabs.com">getinfo@lktlabs.com</a></td>
</tr>
<tr>
<td>Emergency Phone #</td>
<td>1-800-424-9300</td>
</tr>
</tbody>
</table>

### Section 2. Hazards Identification

**GHS Classification**
- Acute toxicity, Oral (Category 4), H302
- Acute aquatic toxicity (Category 1), H400
- Chronic aquatic toxicity (Category 1), H410

**GHS Label elements including precautionary statements**

**Pictogram**

**Signal word** Warning

**Hazard and precautionary statements**
- **Hazard statements**
  - H302 - Harmful if swallowed.
  - H400 - Very toxic to aquatic life.
  - H410 - Very toxic to aquatic life with long-lasting effects.

- **Precautionary statements**
  - P264 - Wash hands thoroughly after handling.
  - P270 - Do not eat, drink, or smoke when using this product.
  - P273 - Avoid release to the environment.
  - P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician IF you feel unwell.
  - P330 - Rinse mouth.
  - P391 - Collect spillage. Hazardous to the aquatic environment.
  - P405 - Store locked up.
  - P501 - Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification**
- Health hazard: 2
- Chronic health hazard: *
- Flammability: 0
- Physical hazard: 0

**NFPA Rating**
- Health hazard: 2
- Fire hazard: 0
- Reactivity hazard: 0

**Potential Health Effects**
- Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.
- Skin - May be harmful if absorbed through skin. May cause skin irritation.
- Eyes - May cause eye irritation.
Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Ingredient: Title Compound</th>
<th>Percent: 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula C₂₄H₃₀N₂O₂ • HCl • H₂O</td>
<td>Formula Wt. 432.98</td>
</tr>
<tr>
<td>CAS No. 7081-53-0</td>
<td>EC No.</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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.

Section 5. Firefighting Measures

Flash Point
Not available.

Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Firefighting Procedures
Wear self-contained breathing apparatus for fire fighting if necessary.

Unusual Fire Hazards
Not available.

Section 6. Accidental Release Measures

Personal Precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions
Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleanup
Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and put in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before reuse.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Recommended storage temperature: Ambient

Hazardous Decomposition Products

Other Remarks

Ingestion - Acute toxicity. Harmful if swallowed.
Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

EXPOSURE CONTROLS
Contains no substances with occupational exposure limit values. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

**Eye and face protection:** Safety glasses with side-shields conforming to EN 166. 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:** Impervious clothing - the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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 to off-white crystalline powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Physical Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
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</tr>
<tr>
<td>Upper explosion limit</td>
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</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Property</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatility</td>
<td>Not available.</td>
</tr>
<tr>
<td>Density</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Ignition temperature</td>
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</tr>
<tr>
<td>Autoignition temperature</td>
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</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

**Stability**

Stable under recommended storage conditions.

**Materials To Avoid**

Strong oxidizing agents, reducing agents.

**Hazardous Decomposition Products**
Section 11. Toxicological Information

Oral LD50  Rat - 261 mg/kg  Skin corrosion/irritation
Inhalation LC50  Not available.  Serious eye damage/irritation
Dermal LD50  Not available.  Respiratory or skin sensitization
Other information on acute toxicity  Not available.  Germ cell mutagenicity  Not available.
Reproductive Toxicity  Not available.  Aspiration Hazard  Not available.
Specific organ toxicity single exposure (GHS)  Not available.  Synergistic effects  Not available.
Specific organ toxicity repeated exposure (GHS)  Not available.  Additional Information  Not available.
Teratogenicity  Not available.  Signs and symptoms of exposure  Not available.

Potential Health Effects
Inhalation - May be harmful if inhaled.  May cause respiratory tract irritation.
Skin - May be harmful if absorbed through skin.  May cause skin irritation.
Eyes - May cause eye irritation.
Ingestion - Acute toxicity.  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 / no
Section 13. Disposal Considerations

**Waste Disposal**

Dispose of material according to all federal, state, and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

**DOT (US)**

UN number: 2811  
Class: 6.1  
Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s. (Doxapram Hydrochloride Hydrate)

**IATA**

UN number: 2811  
Class: 6.1  
Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s. (Doxapram Hydrochloride Hydrate)

**IMDG**

UN number: 2811  
Class: 6.1  
Packing group: III  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Doxapram Hydrochloride Hydrate)

Further Information

Section 15. Regulatory Information

**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 Components**

Acute health hazard

**Massachusetts Right To Know Components**

No components listed.

**Pennsylvania Right To Know Components**

Doxapram Hydrochloride Hydrate  
CAS #: 7081-53-0  
Revision Date:

**New Jersey Right To Know Components**

Doxapram Hydrochloride Hydrate  
CAS #: 7081-53-0  
Revision Date:

**California Prop 65 Components**

This product does not contain any chemicals known to 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.