Section 1. Product and Company Identification

**Product Name**  
Bupivacaine Hydrochloride Monohydrate

**Product ID**  
B8262

**Chemical Name**  
Bupivacaine hydrochloride monohydrate; Carbostesin; Marcaine; Sensorcaine

**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**  
Acute toxicity, Oral (Category 2), H300  
Acute toxicity, Inhalation (Category 1), H330  
Acute toxicity, Skin (Category 2), H310

GHS Label elements including precautionary statements

**Pictogram**  

**Signal word**  
Danger

**Hazard and precautionary statements**  
H300 + H310 + H330 - Fatal if swallowed, in contact with skin or if inhaled.

**Precautionary statements**  
P260 - Do not breathe dust, fumes, gas, mist, vapors and spray.  
P262 - Do not get in eyes, on skin or on clothing.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/ protective clothing.  
P284 - Wear respiratory protection.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P312 - Specific treatment is urgent (see supplemental first aid instructions on this label).  
P330 - Rinse mouth.  
P361 - Remove or take off immediately all contaminated clothing.  
P363 - Wash contaminated clothing before reuse.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification  
Health hazard: 4  
Chronic health hazard: *  
Flammability: 0  
Physical hazard: 0

NFPA Rating  
Health hazard: 4  
Fire hazard: 0  
Reactivity hazard: 0

Potential Health Effects  
Inhalation - Acute toxicity. Fatal if inhaled. May cause respiratory irritation.  
Skin - Acute toxicity. Fatal in contact with skin. May cause skin irritation.  
Eyes - May cause eye irritation.
Ingestion - Acute toxicity. Fatal if swallowed.

Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Formula</th>
<th>CAS No.</th>
</tr>
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<tbody>
<tr>
<td>C_{18}H_{28}N_{2}O • HCl • H_{2}O</td>
<td>73360-54-0</td>
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</tbody>
</table>

Formula Wt. 342.91
EC No. 241-917-8

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. Take victim immediately to hospital. Consult a physician.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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 firefighting if necessary.

Unusual Fire Hazards
Carbon oxides, nitrogen oxides (NOx), and hydrogen chloride gas.

Section 6. Accidental Release Measures

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

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Hazardous Decomposition Products
Not available.

Other Remarks
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/face protection: Face shield and safety glasses. 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. Full and Splash contact - Material: Nitrile rubber. Minimum layer thickness: 0.11 mm, Break through time: 480 min, Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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

Physical State: Solid
Color: White crystal powder

Boiling Point: Not available.

Melting Point: 258.5°C

Solubility: Soluble in water. Slightly soluble in acetone, chloroform, and ether.

Flash Point: Not available.

Lower explosion limit: Not available.

Upper explosion limit: Not available.

Water solubility: Soluble in water.

Partition coefficient: n-octanol/water: Not available.

Relative vapor density: Not available.

Section 10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Materials To Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Not available.
Section 11. Toxicological Information

Oral LD50
- Rabbit - 18 mg/kg

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.

Specific organ toxicity single exposure (GHS)
- Not available.

Synergistic effects
- Not available.

Specific organ toxicity repeated exposure (GHS)
- Not available.

Additional Information
- RTECS: TK6125000
- To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Potential Health Effects
- Inhalation - Acute toxicity. Fatal if inhaled. May cause respiratory irritation.
- Skin - Acute toxicity. Fatal in contact with skin. May cause skin irritation.
- Eyes - May cause eye irritation.
- Ingestion - Acute toxicity. Fatal 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
- PBT/vPvB assessment not available as chemical safety assessment not required/ not
Waste Disposal

Dispose of material according to all federal, state, and local regulations. Offer material to a licensed, professional waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber. Dispose of as unused product.

Section 13. Disposal Considerations

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Section 14. Transport Information

DOT (US) UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solids, organic, n.o.s. (Bupivacaine Hydrochloride Monohydrate)
Marine pollutant: No Poison inhalation hazard: No

IATA UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solids, organic, n.o.s. (Bupivacaine Hydrochloride Monohydrate)

IMDG UN number: 2811 Class: 6.1 Packing group: II EMS No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Bupivacaine Hydrochloride Monohydrate)
Marine pollutant: No

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 are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Bupivacaine Hydrochloride Monohydrate CAS #: 73360-54-0 Revision Date:

New Jersey Right To Know Components Bupivacaine Hydrochloride Monohydrate CAS #: 73360-54-0 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.