Galantamine Hydrobromide MSDS

1. Product Identification and company identification

1.1. Identification of the substance or preparation

Product name: Galantamine Hydrobromide
Chemical Name: Galantamine Hydrobromide
Synonyms: Jilkan hydrobromide; Lycoremine hydrobromide; Nivalin; 1,2,3,4,6,7,7a,11c-Octahydro-9-methoxy-2-methylbenzofuro(4,3,2-e fg) (2) benzazocin-6-ol hydrobromide
Molecular formula: C_{17}H_{22}BrNO_{3}
Molecular Weight: 368.27 g/mol

1.2. Company/Undertaking Identification

Address: P.O. Box, 139 Gulou Post Office Nanjing, 210008 China

1.3. Emergency and contact telephone numbers

Emergency telephone: +86-25-84712605
Contact telephone number: +86-25-84715120 (Product information)

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Percent</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Galanthamine hydromide</td>
<td>1953-04-4</td>
<td>90-100%</td>
<td>none</td>
</tr>
</tbody>
</table>

3. Hazards Identification

**EMERGENCY OVERVIEW:** Toxic if swallowed. May be toxic by inhalation or skin contact.
**Category of Danger:** Toxic
**Principal routes of exposure:** Skin
**Inhalation:** Harmful by inhalation.
**Ingestion:** Toxic if swallowed.
**Skin contact:** Harmful in contact with skin.
**Eye contact:** Risk of serious damage to eyes
**Statements of hazard:** Toxic if swallowed
**Statement of Spill or Leak - ANSI Label:**

It’s worth it, safety comes first.
Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

**Statement of First Aid:**

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

**Precautions - ANSI Label:**

Do not taste or swallow. Wash thoroughly after handling. Avoid breathing vapors. Avoid contact with skin, eyes and clothing.

**4. First Aid Measures**

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water and seek medical advice.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if swallowed, seek medical advice immediately and show this container or label.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Protection of first-aiders:** No information available

**Medical conditions aggravated by exposure:** None known

**5. Fire Fighting Measures**

**Suitable extinguishing media:** Use dry chemical, CO2, water spray or "alcohol" foam

**Specific hazards:** Burning produces irritant fumes.

**Unusual hazards:** None known

**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

**Specific methods:** Water mist may be used to cool closed containers.

**Flash point:** Not determined

**Autoignition temperature:** Not determined

**6. Accidental Release Measures**

**Personal precautions:** Use personal protective equipment.

**Environmental precautions:** Prevent product from entering drains.

**Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal.

**7. Handling and Storage**

**Storage:**

ROOM TEMPERATURE

PROTECT FROM LIGHT

**Handling:** Use only in area provided with appropriate exhaust
ventilation.

**Safe handling advice:** Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

**Technical measures/storage conditions:** Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible products:** Oxidising and spontaneously flammable products

### 8. Exposure Controls/Personal Protection

**Engineering measures:** Ensure adequate ventilation.

**PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical Properties

**Physical state:** Powder

**Formula:** C17H21NO3•HBr

**Molecular weight:** 368.3

**Melting point/range:** 269-270°C (dec.)

**Boiling point/range:** No Data available at this time.

**Density:** No data available

**Vapor pressure:** No data available

**Evaporation rate:** No data available

**Vapor density:** No data available

**Solubility (in water):** Slightly soluble

**Flash point:** Not determined

**Autoignition temperature:** Not determined

### 10. STABILITY AND REACTIVITY

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

**Polymerization:** None under normal processing.

**Hazardous decomposition products:** Nitrogen oxides (NOx)/ammonia/CN- , Bromine

**Materials to avoid:** Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

### 11. TOXICOLOGICAL INFORMATION

**Product Information**

**Acute toxicity**
Components RTECS Number: Selected LD50s and LC50s
GALANTHAMINE HYDROBROMIDE Not Available Oral LD50 Rat: 75 mg/kg
Oral LD50 Mouse: 18700 ug/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation: No data is available on the product itself.
Carcinogenic effects: No data is available on the product itself.
Mutagenic effects: No data is available on the product itself.
Reproductive toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

Components U.S. DOT - Appendix B - U.S. DOT - Appendix B -
Marine Pollutant Severe Marine Pollutants
GALANTHAMINE HYDROBROMIDE Not Listed Not Listed
United Kingdom - The Red List: Not Listed
Components Germany VCI (WGK) World Health Organization
United Kingdom - The Red List: Not Listed
GALANTHAMINE HYDROBROMIDE Not Listed
Ecotoxicity - Fish Species Data: Not Listed
Components Ecotoxicity - Freshwater Ecotoxicity - Microtox Data
Algae Data
GALANTHAMINE HYDROBROMIDE Not Listed Not Listed
Ecotoxicity - Water Flea Data: Not Listed
Components EPA - ATSDR Priority List EPA - HPV Challenge
GALANTHAMINE HYDROBROMIDE Not Listed
Program Chemical List
California - Priority Toxic Components California - Priority Toxic Pollutants California - Priority Pollutants
Pollutants Not Listed Not Listed
Components California - Priority Toxic Pollutants California - Priority Toxic Pollutants
GALANTHAMINE HYDROBROMIDE Not Listed Not Listed

13. DISPOSAL CONSIDERATIONS
Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: 2811
DOT:
Proper shipping name: Toxic solid, organic, n.o.s.
IATA Hazard Label(s): Toxic
Hazard Class 6.1 -
Toxic substances - oral
Packing group: III
Emergency Response Guide Number (ERG): 154
Components U.S. DOT - Appendix A Table 1 - Reportable Quantities
GALANTHAMINE HYDROBROMIDE Not Listed
TDG (Canada):
WHMIS hazard class: D1b toxic materials
IMDG/IMO
Proper shipping name: Toxic solid, organic, n.o.s.
Product name: GALANTHAMINE
HYDROBROMIDE
IMDG - Hazard Classifications Not Applicable
GALANTHAMINE HYDROBROMIDE Not Listed
IMO-labels:

15. REGULATORY INFORMATION

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic.

16. OTHER INFORMATION

Prepared by: Health & Safety
Disclaimer: The information and recommendations contained herein are based upon tests

It’s worth it, safety comes first.
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