

Printing date 03/01/2006

Reviewed on 03/01/2006

1 Identification of substance:

- **Product name:** (+/-)-Hydroxybufuralol, maleate salt
- **Catalog number:** 451035
- **Manufacturer/Supplier:**
BD Discovery Labware
6 Henshaw Street
Woburn, MA 01801
Tel: 800.334.5229
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Discovery Labware at 800.334.5229, or ChemTrec at 800.424.9300.

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
(+/-)-Hydroxybufuralol, maleate salt
 α 2-[(1,1-Dimethylethylamino)methyl]- α 7-methyl-2,
7-benzofurandimethanol, maleate salt

3 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 68/22 Harmful: possible risk of irreversible effects if swallowed.
- **NFPA ratings (scale 0-4)**

Health = 1
Fire = 0
Reactivity = 0**4 First aid measures**

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Seek immediate medical advice.
- **Information for doctor** Show the product label or this MSDS.

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5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Additional information:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 18 - 25C
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses

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· **Body protection:** Protective work clothing (lab coat).**9 Physical and chemical properties:**· **General Information**

Form: Powder
Color: Whitish
Odor: Characteristic

· **Change in condition****Melting point/Melting range:** 159-164°C (318-327°F)**Boiling point/Boiling range:** Not determined· **Flash point:** Not applicable· **Flammability (solid, gaseous)** Product is not flammable.· **Danger of explosion:** Product does not present an explosion hazard.· **Vapor pressure:** Not applicable· **Density:** Not determined· **Solubility in / Miscibility with****Water:** Slightly soluble· **pH-value:** Not applicable· **Organic solvents:** 0.0 %· **Solids content:** 100.0 %**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Materials to be avoided:** Incompatible material: strong oxidizers.· **Dangerous reactions** No dangerous reactions known· **Dangerous products of decomposition:** No dangerous decomposition products known.**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:** LD50, oral rat 615.3 mg/kg· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

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12 Ecological information:

- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of with solid waste.
Dispose of material in accordance with federal (40 CFR 261), state and local requirements.
This product is not considered a RCRA hazardous waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

- **SARA Section 355 (extremely hazardous substances)**
Substance is not listed.
- **SARA Section 313 (specific toxic chemical listings)**
Substance is not listed.
- **TSCA (Toxic Substances Control Act)**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause cancer**
Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:**
Substance is not listed.

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· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenicity categories**· IARC (International Agency for Research on Cancer)**

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· Hazard symbols:

Xn Harmful

· Risk phrases:

68/22 Harmful: possible risk of irreversible effects if swallowed.

· Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water

63 In case of accident by inhalation: remove casualty to fresh air and keep at rest

64 If swallowed, rinse mouth with water (only if the person is conscious)

· National regulations**· Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**16 Other information:****Use of Product:**

- synthetic chemical for research only

- analytical standard

- must be handled by suitably qualified personnel

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· Department issuing MSDS:

Regulatory Affairs

Safety and Environment Department

· Contact: Technical Service Representative