

SAFETY DATA SHEET

1. Identification

| Product identifier | Bromodiphenhydramine Hydrochloride | |
|--|---|--|
| Other means of identification | | |
| Catalog number | 1077005 | |
| Chemical name | Ethanamine, 2-[(4-bromophenyl)phenylmethoxy]-N,N-dimethyl-, hydrochloride | |
| Synonym(s) | Bromazine | |
| Recommended use | Specified quality tests and assay use only. | |
| Recommended restrictions | Not for use as a drug. Not for administration to humans or animals. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Company name | U.S. Pharmaconeia | |

| Company name | U. S. Pharmacopeia | |
|------------------------|------------------------------|-----------------|
| Address | 12601 Twinbrook Parkway | |
| | Rockville | |
| | MD | |
| | 20852-1790 | |
| | US | |
| Telephone | RS Technical Services | 301-816-8129 |
| Website | www.usp.org | |
| E-mail | RSTECH@usp.org | |
| Emergency phone number | CHEMTREC within US & Canada | 1-800-424-9300 |
| | CHEMTREC outside US & Canada | +1 703-527-3887 |

2. Hazard(s) identification

| Physical hazards | Not classified. | |
|------------------|---|-----------------------------|
| Health hazards | Acute toxicity, oral | Category 4 |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| OSHA hazard(s) | Not classified. | |

Label elements



| | ▼ |
|--|---|
| Signal word | Warning |
| Hazard statement | Harmful if swallowed. May cause drowsiness or dizziness. |
| Precautionary statement | |
| Prevention | Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. |
| Response | If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | Not classified. |

3. Composition/information on ingredients

Substance

| Hazardous components Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|-----|
| Bromodiphenhydramine Hydrochloride | Bromazine | 1808-12-4 | 100 |

| 4. First-aid measures | |
|--|---|
| Inhalation | Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Rinse skin with water/shower. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. |
| Most important symptoms/effects, acute and delayed | Narcotic effects. |
| Indication of immediate medical attention and special treatment needed | Treatment of antihistamine overdose should be symptomatic and supportive and may include the following: Administer activated charcoal as a slurry. For severe tachycardia, use beta blocking agents such as esmolol as a temporizing measure. For Torsades de Pointes: Administer magnesium, isoproterenol, and/or atrial overdrive pacing to stable patients. Hemodynamically unstable patients may require electrical cardioversion. Correct electrolyte abnormalities. For seizures, administer intravenous benzodiazepines. If seizures recur, consider phenobarbital. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. For hypotension: Infuse 10 to 20 mL/kg isotonic fluid. If hypotension persists, administer dopamine or norepinephrine. For agitation or dystonia, administer oral or intravenous benzodiazepines. Hemodialysis, hemoperfusion, peritoneal dialysis, and repeat-dose activated charcoal are not effective in removing antihistamines. (Meditext) |
| General information | Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. |
| 5. Fire-fighting measures | |
| Suitable extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. Water. Foam. Dry chemical or CO2. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | No unusual fire or explosion hazards noted. |
| Special protective equipment and precautions for firefighters | Wear suitable protective equipment. |
| Fire-fighting equipment/instructions | Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. |
| Specific methods | |
| | Use standard firefighting procedures and consider the hazards of other involved materials. |
| 6. Accidental release meas | |
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| Personal precautions, protective equipment and | Sures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from |
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| Personal precautions, protective equipment and emergency procedures Methods and materials for containment and cleaning up 7. Handling and storage Precautions for safe handling Conditions for safe storage, | Sures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination. As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity. |
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| Personal precautions, protective equipment and emergency procedures Methods and materials for containment and cleaning up 7. Handling and storage Precautions for safe handling Conditions for safe storage, including any incompatibilities 8. Exposure controls/perso | Sures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination. As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity. |

| Appropriate engineering controls | Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. |
|-------------------------------------|--|
| Individual protection measures, | such as personal protective equipment |
| Eye/face protection | Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area. |
| Skin protection | |
| Hand protection | Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. |
| Other | For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination. |
| Respiratory protection | Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134). |
| Thermal hazards | Not available. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical and chemical properties

| Appearance | White to pale buff crystalline powder. |
|--|--|
| Physical state | Solid. |
| Form | Powder. |
| Odor | Faint odor. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | 291.2 - 293 °F (144 - 145 °C) |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or expl | osive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | < 0.0000001 kPa at 25 °C |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility in water | Very soluble. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Chemical family | Ethanolamine derivative. |
| Molecular formula | C17H20BrNO.CIH |
| | |

10. Stability and reactivity

| Reactivity | No reactivity hazards known. |
|---------------------------------------|--|
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | None known. |
| Incompatible materials | Oxidizing agents. |
| Hazardous decomposition products | Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx SOx |

11. Toxicological information

Information on likely routes of exposure

| information on likely routes of ex | Aposulo | | |
|---|---|--|--|
| Ingestion | Harmful if swallowed. | | |
| Inhalation | Due to lack of data the classification is not possible. | | |
| Skin contact | Due to lack of data the classification is not possible. | | |
| Eye contact | Due to lack of data the classification is not possible. | | |
| Symptoms related to the physical, chemical, and toxicological characteristics | For antihistamines: Nausea. Diarrhea. Headache. Drowsiness. Dizziness. Sore throat. Fever. Bleeding or bruising. Tiredness. Weakness. Thickening of mucus. Change in appetite. Change in weight. Dry mouth, nose, or throat. Blurred vision. Changes in vision. Confusion. Difficult or painful urination. Sweating. Sensitivity to sunlight. Ringing or buzzing in ears. Stomach pain. Skin rash. Chills. Clay-colored stools. Dark urine. Burning, prickly sensations. Tingling. Trouble sleeping. Clumsiness. Unsteadiness. Flushing. Trouble breathing. Fast heartbeat. Irregular heartbeat. Fixed or dilated pupils. Fainting. Hallucinations. Seizures. | | |
| Delayed and immediate effects of exposure | For antihistamines: Coma. Death. | | |
| Cross sensitivity | Persons sensitive to other antihistamines may | be sensitive to this material also. | |
| Medical conditions aggravated by exposure | For antihistamines: Active alcoholism. Bronchial asthma. Hyperthyroidism. Heart disease. Hypertension. Urinary retention. Bladder neck obstruction. Prostate enlargement. Glaucoma. Peptic ulcer. Pyloric obstruction. | | |
| Acute toxicity | Harmful if swallowed. | | |
| Product | Species | Test Results | |
| Bromodiphenhydramine Hydrochlo Oral LD50 | ride (CAS 1808-12-4) Mouse | 266 malka | |
| LDSU | Mouse | 366 mg/kg | |
| | Pat | 602 ma/ka | |
| . | Rat | 602 mg/kg | |
| Skin corrosion/irritation | Due to lack of data the classification is not pos | ssible. | |
| Skin corrosion/irritation Serious eye damage/eye irritation | | ssible. | |
| Serious eye damage/eye | Due to lack of data the classification is not pos | ssible. | |
| Serious eye damage/eye irritation Respiratory sensitization Skin sensitization | Due to lack of data the classification is not pos Due to lack of data the classification is not pos Due to lack of data the classification is not pos Due to lack of data the classification is not pos | ssible. ssible. ssible. | |
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Not available.

Not available.

Mobility in soil

Other adverse effects

13. Disposal considerations

| Disposal instructions | Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. |
|--|--|
| Local disposal regulations | Not available. |
| Hazardous waste code | Not available. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

Transport in bulk according to No information available. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

| US federal regulations | CERCLA/SARA Hazardous Substances - Not applicable. | | |
|---|---|------------------------|--|
| | One or more components are not listed on TSCA. | | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) | | | |
| Hazard categories | Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No | | |
| SARA 302 Extremely hazardous substance | No | | |
| SARA 311/312 Hazardous chemical | No | | |
| Other federal regulations | | | |
| Safe Drinking Water Act (SDWA) | Not regulated. | | |
| Food and Drug Administration (FDA) | Not regulated. | | |
| US state regulations | California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposis not known to contain any chemicals currently listed as carcinogens or re | | |
| International Inventories | | | |
| Country(s) or region | Inventory name | On inventory (yes/no)* | |
| Australia | Australian Inventory of Chemical Substances (AICS) | No | |
| Canada | Domestic Substances List (DSL) | No | |
| Canada | Non-Domestic Substances List (NDSL) | No | |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No | |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes | |
| Europe | European List of Notified Chemical Substances (ELINCS) | No | |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No | |
| Korea | Existing Chemicals List (ECL) | No | |
| New Zealand | New Zealand Inventory | No | |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No | |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No | |
| *A "Yes" indicates that all compor | ents of this product comply with the inventory requirements administered by the gove | erning country(s) | |

16. Other information, including date of preparation or last revision

| | • • • |
|----------------------|--|
| Issue date | 04-06-2004 |
| Revision date | 08-07-2014 |
| Version # | 02 |
| Further information | Not available. |
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