

MATERIAL SAFETY DATA SHEET

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| HONEYWELL CHEMICALS{PRIVAT } VALE ROAD ARKLOW CO WICKLOW IRELAND. TEL: 353 (402) 20300 FAX: 353 (402) 31147 | SPECIALTY | MSDS NO: MS-030-5 SUPERSEDES: MS-030-4 VALID FROM: _____ APPROVED BY: _____ Health & Safety Manager |
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COMMERCIAL PRODUCT NAME: BROMPHENIRAMINE MALEATE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING

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| Product Name | : 2-[p-bromo-a-[2-(dimethylamino)ethyl]benzyl]pyridine maleate |
| Product Type | : Active pharmaceutical product (antihistaminic) |
| Manufacturer/Supplier | : Honeywell Research & Life Science Solutions |
| Address | : Vale Road, Arklow, Co. Wicklow, Ireland. |
| Phone Number | : 353-402-20300 |
| Fax Number | : 353-402-31147 |
| Emergency Phone Number | : 353-402-20300 |

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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| Ingredients | : Brompheniramine Maleate |
| CAS No. | : 980-71-2 |
| Einecs No. | : 213-562-9 |
| Weight % | : 100 |
| Symbols | : Xn |
| R. Phrases | : 22 Harmful if swallowed |

SECTION 3: HAZARDS IDENTIFICATION

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| Main Hazards | : Harmful if swallowed |
| Health Effects - Eye | : May cause eye irritation. |
| Health Effects - Skin | : May cause irritation. |

Health effects - Ingestion : Harmful if Swallowed.
 Health Effects - Inhalation : No data given

SECTION 4: FIRST AID MEASURES

Eye Contact : **DO NOT DELAY.** Immediately flood the eyes with copious quantities of water for at least 15 minutes. Obtain medical attention immediately.

Inhalation : Remove to fresh air. If not breathing, administer artificial respiration with a **MANUAL RESUSCIATOR ONLY.** If breathing is feeble, administer oxygen. Obtain medical attention immediately.

Skin contact : Wash skin with soap and water. Continue washing for at least 15 minutes. Obtain medical attention of blistering occurs or redness persists.

Ingestion : Do not induce vomiting. Wash out mouth with water. Obtain medical attention urgently. If there is difficulty in breathing, give oxygen. If breathing fails or stops, give artificial respiration with a **MANUAL RESUSCIATOR ONLY.**

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media : Use water spray, dry chemical, carbon dioxide or alcohol resistant foam as appropriate.

Unsuitable Extinguishing Media : None.

Special Hazards of Product : Emits toxic fumes under fire conditions.

Hazardous Combustion Products : Carbon monoxide, carbon dioxide and oxides of nitrogen.

Protective equipment for Fire Fighting : Wear full protective clothing and self-contaminated breathing apparatus. Evacuate personnel to a safe area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Wear appropriate respiratory protection and protective clothing. Observe any warning labels on the container. Evacuate the area of non-essential personnel.

Environmental Precautions : Prevent the material from entering drains, surface of groundwater and soil. Shovel up and place in a suitable container for recovery or disposal. After cleaning, flush contaminated area with plenty of water and collect water for approved disposal.

SECTION 7: HANDLING AND STORAGE

- Handling** : Use with adequate general and local exhaust ventilation. Avoid inhaling dust. Avoid contact with eyes, skin or clothing. Keep container tightly closed when not in use.
- Storage** : Store indoors in airtight containers, in a cool, dry, well ventilated area away from living quarters. For containers use fibreboard or plastic. Avoid oxidisers, strong acids and bases.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- Occupational Exposure Standards** : No data available.
- Respiratory Protection** : Avoid breathing dust. A full face respirator (with organic particulate canister) or air supplied breathing apparatus should be worn.
- Hand Protection** : Wear rubber, PVC or nitrile gloves when handling.
- Eye Protection** : Wear safety glasses and face shield or goggles.
- Skin Protection** : Use appropriate clothing to protect exposed skin (e.g. apron or Tyvek® suit). Wear safety boots.
- Engineering Controls** : Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation and control of process conditions. If engineering controls and work practices are not effective in controlling exposure, the suitable personal protective equipment should be used.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** : Solid.
- Colour** : White.
- Odour** : Odourless.
- Boiling Point (°C)** : Not applicable.
- Flash Point (°C)** : Not applicable.
- Water Solubility (20° C)** : Freely soluble in water.
- Melting Point** : 170 - 135°C.
- Vapour Density (Air=1)** : Not applicable.
- Vapour Pressure** : Not applicable.
- Bulk Density** : 0.5 – 1.0 g/ml

SECTION 10: STABILITY AND REACTIVITY

- Stability** : Stable under normal conditions.

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| Conditions to Avoid Instability | : Avoid excessive heat and naked flames. |
| Materials to Avoid Incompatibility | : Do not mix with acidic substances and metals. |
| Hazardous Decomposition Products | : Carbon Monoxide, Carbon Dioxide, Ammonia and Diethylamine. |

SECTION 11: TOXICOLOGICAL INFORMATION

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| Acute Toxicity-Oral | : LD ₅₀ (RATS) is 318 ^{mg} /kg. |
| Acute Toxicity-Dermal | : Data not available. |
| Acute Toxicity-Inhalation | : Data not available. |
| Eye Irritation | : Data not available. |
| Skin Irritation | : Data not available. |
| Skin Sensitisation | : Data not available. |
| Health Warnings | : Target organ(s): Central Nervous System. |
| Medical Symptoms | : Data not available. |
| Acute and Chronic Health Hazards | : Exposure can cause drowsiness and sedation. |

SECTION 12: ECOLOGICAL INFORMATION

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| Mobility | : Data not available. |
| Persistence / Degradability | : Data not available. |
| Bioaccumulation | : Data not available. |
| Ecotoxicity | : Data not available. |

SECTION 13: DISPOSAL CONSIDERATIONS

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| Precautions | : Refer to Section 7 (Handling and Storage) before handling the product or containers. |
| Product/Waste Disposal | : Recover or recycle if possible. Otherwise incinerate. Dispose of in accordance with all applicable local and national regulations. |
| Container Disposal | : Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Containers should be cleaned by appropriate methods and then reused or recycled, as appropriate. Do not puncture, cut or weld unclean drums. |
| Other information | : The material should not be introduced into drains. |

SECTION 14: TRANSPORT REGULATIONS

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| UN Number | : None. |
| UN Class/Packing Group | : Not classified as hazardous. |
| UN Number (Road Transport) | : None. |

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| ADR/RID Symbol | : Not classified as hazardous. |
| ADR/RID Kemler Number | : Not classified as hazardous. |
| ADR/RID Proper Shipping Name | : None. |
| UN Number Sea Transport (IMDG) | : None. |
| IMDG Class / Packing Group | : Not classified as hazardous. |
| IMDG Symbol | : None. |
| IMDG Marine Pollutant | : None. |
| IMDG Proper Shipping Name | : None. |
| UN Number Air Transport (ICAO) | : None. |
| IATA/ICAO Class/Packing Group | : Not classified as hazardous. |
| IATA/ICAO Symbol | : Not classified as hazardous. |
| IATA/ICAO Proper Shipping Name | : None. |

SECTION 15: REGULATORY INFORMATION

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| EC Label Name | : Brompheniramine Maleate. |
| EC Classification | : Harmful |
| EC Symbols | : Xn |
| EC Risk Phrases | : R22 Harmful if swallowed. |
| EC Safety Phrases | : S13, Keep away for food, drink and animal feeding stuffs. S22, do not breathe dust. S26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28, After contact with skin, wash immediately with plenty of water. S38, In case of insufficient ventilation, wear suitable respiratory equipment. S62, If swallowed, do not induce vomiting, seek medical advice immediately and show this container as label. S20/21, When using do not eat, drink or smoke. S24/25, Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. |
| EINECS (EC) | : 213-562-9 |

SECTION 16: OTHER INFORMATION

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| Training | : Train all personnel handling product in safe handling procedures as per this Material Data Sheet. |
| Revision Date | : 13 th August 2002. |

Notice

: This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.