

Catalog Number: 151814 Revision date: 16-Feb-2004

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION 1.

Catalog Number: 151814

Product name: PERHEXILINE MALEATE SALT

Supplier: MP Biomedicals, Inc. 1263 S. Chillicothe Rd. Aurora, OH 44202 tel: 330-562-1500

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components PERHEXILINE MALEATE SALT CAS Number 6724-53-4

Weight % 90-100%

None

ACGIH Exposure Limits:

OSHA Exposure Limits: None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin Inhalation: May cause irritation of respiratory tract Ingestion: May be harmful if swallowed. Skin contact: May cause allergic skin reaction Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Statement of Spill or Leak - ANSI Label 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.

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. 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: Specific hazards: Unusual hazards: Special protective equipment for firefighters: | | Use dry chemical, CO2, water spray or "alcohol" foam Burning produces irritant fumes. None known 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 | | |
| NFPA rating: | | | | |
| NFPA Health: | 1 | | | |
| NFPA Flammability: | 1 | | | |
| NFPA Reactivity: | 0 | | | |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Environmental precautions: Methods for cleaning up:

Use personal protective equipment. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Safe handling advice: Incompatible products: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. 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: Formula: Molecular weight: Melting point/range: Boiling point/range: Density: Vapor pressure: Evaporation rate: Catalog Number: 151814 Powder C19H35N • C4H4O4 393.6 No data available at this time. No Data available at this time. No data available No data available No data available Product name: PERHEXILINE MALEATE SALT Vapor density: Solubility (in water): Flash point: Autoignition temperature: No data available No data available Not determined Not determined

10. STABILITY AND REACTIVITY

Stability: Polymerization: Hazardous decomposition products: Materials to avoid: Conditions to avoid:

Stable under recommended storage conditions. None under normal processing. Nitrogen oxides (NOx)/ammonia/CN-Strong oxidising agents Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

| Product Information Acute toxicity Components PERHEXILINE MALEATE SALT | RTECS Number: TM7068000 | Selected LD50s and LC50s Oral LD50 Rat : 2150 mg/kg Oral LD50 Mouse : 2641 mg/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 t | he product itself. | | |

12. ECOLOGICAL INFORMATION

| Mobility: Bioaccumulation: Ecotoxicity effects: Aquatic toxicity: | | No data available No data available No data available May cause long-term adverse environment. | e effects in the aquatic |
|--|--|--|---|
| Components | U.S. DOT - Appendix B - Marine Pollutan | U.S. DOT - Appendix B - Severe Marine Pollutants | United Kingdom - The Red List: |
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | Not Listed |
| Components | Germany VCI (WGK) | World Health Organization (WHO) - Drinking Water | Ecotoxicity - Fish Species Data |
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | Not Listed |
| Components | Ecotoxicity - Freshwater Algae Data | Ecotoxicity - Microtox Data | Ecotoxicity - Water Flea Data |
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | Not Listed |
| Components | EPA - ATSDR Priority List | EPA - HPV Challenge Program Chemical List | California - Priority Toxic Pollutants |
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | Not Listed |

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| Components PERHEXILINE MALEATE SALT | California - Priority Toxic Pollutants Not Listed | | California - Priority Toxic Pollutants Not Listed | | | |
|---|---|--|--|--|--|--|
| 13. DISPOSAL CONSIDERATIONS | | | | | | |
| Waste from residues / unused products: Contaminated packaging: | | 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 extinguishe with this material may be hazardous. Do not re-use empty containers | | | | |
| | | | | | | |
| | 14. TRANSPORT INFORMATION | | | | | |
| UN/Id No: | | Not regulated | ł | | | |
| DOT: | | | | | | |
| Proper shipping nam | e: | Not Regulate | d | | | |
| Components PERHEXILINE MALEATE SALT | U.S. DOT - Appendix A Table 1 - Reportable Quantities Not Listed | | | | | |
| TDG (Canada): WHMIS hazard class: | | Non-controlle | d | | | |
| IMDG/IMO | | | | | | |
| IMDG - Hazard Classi | fications | Not Applicabl | e | | | |
| Components | U.S. DOT - Appendix B - Marine Pollutan | | U.S. DOT - Appendix B - Severe Marine Pollutants | | | |
| PERHEXILINE MALEATE SALT | Not Listed | | Not Listed | | | |

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components PERHEXILINE MALEATE SALT Inventory - United States TSCA - Sect. 8(b) Canada DSL Inventory List -Australia (AICS): EU EINECS List -

Not Listed Not Listed Present 229-775-5; C19H35N.C4H4O4

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| Components | California Proposition 65 | Massachusetts Right to Know List: | New Jersey Right to Know List: | Pennsylvania Right to Know List: |
|--|--|--|--------------------------------------|---|
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | Not Listed | Not Listed |
| Components | Florida substance List: | Rhode Island Right to Know List: | Illinois - Toxic Air Contaminants | Connecticut - Hazardous Air Pollutants |
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | Not Listed | Not Listed |
| Components | SARA 313 Emission reporting/Toxic Release of Chemicals | CERCLA/SARA - Section 302 Extremely Haz | NTP: | IARC: |
| PERHEXILINE MALEATE SALT | Not Listed | Not Listed | None | None |
| SARA 313 Notification: | 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 Ammendments 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 and/or reproductive hazards; and the compounds environmental impact if accidentally released. | | | |
| 16. OTHER INFORMATION | | | | |

Prepared by: Health & Safety

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End of Safety Data Sheet