PHENELZINE SULFATE SALT

Material Safety Data Sheet

Catalog Number: 156136

Revision date: 18-Mar-2005

Australia Hazardous Statement: Hazardous according to criteria of NOHSC

1. COMPANY DETAILS

Supplier: MP Biomedicals Australasia Pty Limited
Unit 12, 167 Prospect Hwy.
Seven Hills, NSW 2147 Aust.

Telephone Number: (02) 9838 7422
Fax Number: (02) 9838 7390

Emergency telephone number: (02) 9838 7422: hours: 8.30 AM to 5.00 PM

Australian Business Number (ABN): 31 106 467 109

2. IDENTIFICATION

Product name: PHENELZINE SULFATE SALT
Catalog Number: 156136
Synonyms: Not Available

UN/Id No: No UN Number allocated
Proper shipping name: No Dangerous goods class allocated
IATA Hazard Label(s): No Dangerous goods class allocated
Hazard Class: No Dangerous goods class allocated
Subsidiary risk: No Subsidiary Risk allocated

Emergency Action Code (Hazchem code): No Hazchem Code allocated
Poisons schedule No. (Aust)/Toxic Substance (NZ): S5  Caution.
Recommended use: Research product for non-human use

Component Australia (AICS): Present

PHENELZINE SULFATE SALT
156-51-4 (100)

3. PHYSICAL DESCRIPTION/PROPERTIES

Physical state: Solid
Formula: C8H12N2 • H2SO4
Molecular weight: 234.3
Boiling point/range: Not determined
Melting point/range: Not determined
Density: Not determined
Vapor pressure: Not determined
Solubility (in water): Not determined
Flash point: Not determined
Autoignition temperature: Not determined
4. INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>EC No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENELZINE SULFATE SALT</td>
<td>156-51-4</td>
<td>100</td>
<td>205-856-0</td>
<td>Xn</td>
</tr>
</tbody>
</table>

5. HAZARDS IDENTIFICATION

Australia Hazardous Statement: Hazardous according to criteria of NOHSC

Indication of Danger:
Xn - Harmful.

Risk Phrases:
R22 - Harmful if swallowed.

Safety Phrases:

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Category of Danger: Harmful

Poisons schedule No. (Aust)/Toxic Substance (NZ): S5  Caution.

6. HEALTH HAZARD INFORMATION

HEALTH EFFECTS

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed.
Principle routes of exposure: Skin
Inhalation: Harmful by inhalation.
Ingestion: Harmful if swallowed.
Skin contact: Harmful in contact with skin.
Eye contact: Risk of serious damage to eyes
Statements of hazard
HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Components | Australian Exposure Standards - Carcinogens | Australia - Exposure Standards - Short Time W
PHENELZINE SULFATE SALT | Not Listed | Not Listed

Components | Australia - Exposure Standards - Skin E | Australia - Exposure Standards - Time W
PHENELZINE SULFATE SALT | Not Listed | Not Listed
FIRST AID

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
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
Notes to physician: None
Medical conditions aggravated by exposure: None known

7. PRECAUTIONS FOR USE

Section 8 Notes: TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers.

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Self-contained breathing apparatus
Hand protection: Pvc disposable gloves
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Eye protection: Safety glasses
Hygiene measures: Avoid contact with skin, eyes and clothing.

8. SAFE HANDLING INFORMATION

Storage:
ROOM TEMPERATURE
Handling: Use only in area provided with appropriate exhaust ventilation.
Safe handling advice: Wear personal protective equipment.
Technical measures/storage conditions: Keep containers tightly closed in a cool, well-ventilated place.

Stability: Stable under recommended storage conditions.
Polymerization: None under normal processing.
Hazardous decomposition products: Nitrogen oxides (NOx)/ammonia/CN- Sulphur oxides
Materials to avoid: Strong oxidising agents
Conditions to avoid: Exposure to air or moisture over prolonged periods.

Spills and Disposal:

Catalog Number: 156136          Product name: PHENELZINE SULFATE SALT
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.
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

Fire/Explosion Hazards:
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.

9. TOXICOLOGICAL INFORMATION

Product Information
Acute toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>RTECS Number:</th>
<th>Selected LD50s and LC50s</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENELZINE SULFATE SALT</td>
<td>MV87500000</td>
<td>Oral LD50 Rat : 210 mg/kg Oral LD50 Mouse : 156 mg/kg</td>
</tr>
</tbody>
</table>

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.
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.

10. 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.

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. DOT - Appendix B - Marine Pollutant</th>
<th>U.S. DOT - Appendix B - Severe Marine Pollutants</th>
<th>United Kingdom - The Red List:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENELZINE SULFATE SALT</td>
<td>Not Listed</td>
<td>Not Listed</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Germany VCI (WGK)</th>
<th>World Health Organization (WHO) - Drinking Water</th>
<th>Ecotoxicity - Fish Species Data</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Not Listed</td>
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</tr>
</tbody>
</table>
11. TRANSPORT INFORMATION

IMDG/IMO

IMDG - Hazard Classifications: Not Applicable
IMDG - Marine Pollutants: Not Applicable
IMDG - Marine Pollutants: Not Applicable
IMDG - Regulated Substances: Not Applicable
IMDG - Severe Marine Pollutants: Not Applicable

IMO-labels:

Packing group: None
Proper shipping name: Not Regulated
UN/Id No: Not regulated

ADR/RID

Australia Hazardous Statement: Hazardous according to criteria of NOHSC
Hazard Class: No Dangerous goods class allocated
Item: PHENELZINE SULFATE SALT
ADR/RID-labels: No Dangerous goods class allocated
UN/Id No: Not regulated
Emergency Action Code (Hazchem code): Not required
Proper shipping name: Not Regulated

ICAO:

Hazard Class: No Dangerous goods class allocated
Packing group: None
Proper shipping name: Not Regulated

12. REGULATORY INFORMATION

International inventories:

PHENELZINE SULFATE SALT
Australia (AICS): Present
EU EINECS List - 205-856-0; C8H12N2.H2O4S
Indication of Danger: Xn - Harmful.
Risk Phrases: R22 - Harmful if swallowed.

Safety Phrases: .

Safety Combination Phrases:
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Poisons schedule No. (Aust)/Toxic Substance (NZ): S5 Caution.

13. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet