Material Safety Data Sheet

Catalog Number: 193769

Revision date: 08-Mar-2005
Australia Hazardous Statement: Not classified as 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: MYRISTICIN
Catalog Number: 193769
Synonyms: 4-Methoxy-6-[2-propenyl]-1,3-benzodioxole; 5-Allyl-1-methoxy-2,3-(methylene dioxy)benzene

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): No Poisons Schedule Number allocated
Recommended use: Research product for non-human use

Component Australia (AICS):
MYRISTICIN 607-91-0 (100)
Not Present

3. PHYSICAL DESCRIPTION/PROPERTIES

Physical state: Liquid
Formula: C11H12O3
Molecular weight: 192.2
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>
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</thead>
<tbody>
<tr>
<td>MYRISTICIN</td>
<td>607-91-0</td>
<td>100</td>
<td>210-146-9</td>
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</tbody>
</table>

5. HAZARDS IDENTIFICATION

Australia Hazardous Statement: Not classified as hazardous according to criteria of NOHSC

Indication of Danger:
None.

Safety Phrases:
S36 - Wear suitable protective clothing.

Poisons schedule No. (Aust)/Toxic Substance (NZ): No Poisons Schedule Number allocated

6. HEALTH HAZARD INFORMATION

HEALTH EFFECTS

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.

| Components | Australia - Exposure Standards - Carcinogens | Australia - Exposure Standards - Short
<table>
<thead>
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<tbody>
<tr>
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<tr>
<th>Components</th>
<th>Australia - Exposure Standards - Skin E</th>
<th>Australia - Exposure Standards - Time W</th>
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<td>MYRISTICIN</td>
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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.

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: 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:
+4°C

Handling: Use only in area provided with appropriate exhaust ventilation.
Safe handling advice: Wear personal protective equipment.

Stability: Stable under recommended storage conditions.
Polymerization: None under normal processing.
Hazardous decomposition: Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid: Strong oxidising agents
Conditions to avoid: Exposure to air or moisture over prolonged periods.

Spills and Disposal:

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>
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</thead>
<tbody>
<tr>
<td>MYRISTICIN</td>
<td>CY2625000</td>
<td>Oral LD50 Rat: 4260 mg/kg</td>
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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>
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<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>
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<tbody>
<tr>
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<thead>
<tr>
<th>Components</th>
<th>Germany VCI (WGK)</th>
<th>World Health Organization (WHO) - Drinking Water</th>
<th>Ecotoxicity - Fish Species Data</th>
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<tr>
<th>Components</th>
<th>Ecotoxicity - Freshwater Algae Data</th>
<th>Ecotoxicity - Microtox Data</th>
<th>Ecotoxicity - Water Flea Data</th>
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<tr>
<th>Components</th>
<th>EPA - ATSDR Priority List</th>
<th>EPA - HPV Challenge Program Chemical List</th>
<th>California - Priority Toxic Pollutants</th>
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<th>California - Priority Toxic Pollutants</th>
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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: Not classified as hazardous according to criteria of NOHSC
Hazard Class: No Dangerous goods class allocated
Item: MYRISTICIN
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:

MYRISTICIN
Australia (AICS): Not Present
EU EINECS List - 210-146-9; C11H12O3
Indication of Danger: None.
Safety Phrases: S36 - Wear suitable protective clothing.
Poisons schedule No. (Aust)/Toxic Substance (NZ): Not required

13. OTHER INFORMATION

Prepared by: Health & Safety
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End of Safety Data Sheet