



Material Safety Data Sheet

HAZARDOUS

Catalog Number: 224688

Revision date: 15-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.
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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: FERROUS ARSENATE

Catalog Number: 224688

Synonyms: Not Available

UN/Id No: 1606

Proper shipping name: Ferric arsenate

IATA Hazard Label(s): Toxic

Hazard Class: 6.1

- Toxic substances - oral

Subsidiary risk: No Subsidiary Risk allocated

Packing group: II

Emergency Action Code (Hazchem code): 2Z

Poisons schedule No. (Aust)/Toxic Substance (NZ): S6 Poison.

Recommended use: Research product for non-human use

Component	Australia (AICS):
FERROUS ARSENATE 10102-49-5 (100)	Present

3. PHYSICAL DESCRIPTION/PROPERTIES

Appearance and Odor: Gray solid crystals

Physical state: Solid

Formula: FeAsO₄

Molecular weight: 74.9216

Boiling point/range: 2735 °C at 1013 hPa

Melting point/range: 1539 °C

Density: 7.87 g/cm³ at 25 °C

Vapor pressure: ca. .000001 hPa at 25 °C

Solubility (in water): Insoluble

Catalog Number: 224688

Product name: FERROUS ARSENATE

Flash point: Not determined
 Autoignition temperature: > 100 °C
 Flammable limits in air - lower (%): Not determined
 Flammable limits in air - upper (%): Not determined

4. INGREDIENTS

Components	CAS Number	Weight %	EC No.	Classification
FERROUS ARSENATE	10102-49-5	100	233-274-7	T

5. HAZARDS IDENTIFICATION

Australia Hazardous Statement: Hazardous according to criteria of NOHSC



Indication of Danger:

T - Toxic.

R23/25 - Toxic by inhalation and if swallowed.

Safety Phrases:

S28 - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S20/21 - When using, do not eat, drink or smoke.

Category of Danger: Toxic , Carc. cat. 1

Poisons schedule No. (Aust)/Toxic Substance (NZ): S6 Poison.

6. HEALTH HAZARD INFORMATION

HEALTH EFFECTS

EMERGENCY OVERVIEW:

Toxic: danger of very serious irreversible effects if swallowed. May also have serious irreversible effects through skin contact or inhalation.

Principle routes of exposure:

Skin

Inhalation:

Harmful: possible risk of irreversible effects through inhalation.

Ingestion:

Toxic: danger of very serious irreversible effects if swallowed.

Skin contact:

Harmful: danger of serious damage to health by prolonged skin contact.

Eye contact:

Risk of serious damage to eyes

Statements of hazard

Toxic if swallowed

Components	Australian Exposure Standards - Carcinogens	Australia - Exposure Standards - Short
FERROUS ARSENATE	confirmed carcinogen	Not Listed

Components	Australia - Exposure Standards - Skin E	Australia - Exposure Standards - Time W
FERROUS ARSENATE	Not Listed	0.05 mg/m ³ TWA

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 for at least 15 minutes
Ingestion:	Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Induce vomiting if person is conscious.
Eye contact:	Flush eye(s) immediately with plenty of water. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protection of first-aiders:	No information available
Notes to physician:	None
Medical conditions aggravated by exposure:	None known

7. PRECAUTIONS FOR USE

Components	Australian Exposure Standards - TWA	Australian Exposure Standards - Carcinogens	Australian List of Designated Hazardous
FERROUS ARSENATE		confirmed carcinogen	

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, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Self-contained breathing apparatus

Hand protection: Pvc disposable gloves

Skin and body protection: Impervious clothing Long sleeved clothing

Eye protection: Safety glasses

Hygiene measures: Avoid contact with skin, eyes and clothing.



8. SAFE HANDLING INFORMATION

Storage:

ROOM TEMPERATURE

Handling:

Safe handling advice:

Use only in area provided with appropriate exhaust ventilation.

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep container tightly closed in a dry and well-ventilated place.

Stability:

Stable under recommended storage conditions.

Polymerization: None under normal processing.
Hazardous decomposition products: Arsenic oxides
Materials to avoid: -
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

Components	RTECS Number:	Selected LD50s and LC50s
FERROUS ARSENATE	NO4585000	Oral LD50 Rat : 30 gm/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.
Carcinogenic effects: A known carcinogen.
Mutagenic effects: No data is available on the product itself.
Reproductive toxicity: No data is available on the product itself.

Components	NIOSH - Health Effects	NIOSH - Target Organs
FERROUS ARSENATE	Lung and lymphatic cancer, dermatitis	liver, kidneys, skin, lungs, lymphatic system, lung and lymphatic cancer

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.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
FERROUS ARSENATE	DOT regulated marine pollutant	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
FERROUS ARSENATE	Not Listed	0.01 mg/L (Provisional)	Not Listed

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
FERROUS ARSENATE	Not Listed	Not Listed	Not Listed

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
FERROUS ARSENATE	Rank (of 275): 001	Not Listed	Maximum concentration = 340 ug/L; continuous concentration = 150 ug/L

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
FERROUS ARSENATE	Not Listed	Maximum concentration = 69 ug/L; continuous concentration = 36 ug/L

11. TRANSPORT INFORMATION

IMDG/IMO

Proper shipping name:	Ferric arsenate
IMDG - Hazard Classifications	IMDG class or division = 6.1, P
IMDG - Marine Pollutants	UN1606
IMDG - Marine Pollutants	UN1606
IMDG - Regulated Substances	UN1606
IMDG - Severe Marine Pollutants	Not Applicable

IMO-labels:

Packing group:	II
Proper shipping name:	Ferric arsenate
UN/Id No:	1606

ADR/RID

Australia Hazardous Statement:	Hazardous according to criteria of NOHSC
Hazard Class	6.1
Item:	FERROUS ARSENATE
ADR/RID-labels:	Toxic
UN/Id No:	1606
Emergency Action Code (Hazchem code):	2Z
Proper shipping name:	Ferric arsenate

ICAO:

Hazard Class	6.1
Packing group:	II

Proper shipping name:

Ferric arsenate

12. REGULATORY INFORMATION**International inventories:**

FERROUS ARSENATE

Australia (AICS): Present
Inventory - China: Present
EU EINECS List - 233-274-7; AsH3O4.Fe
Korean KECL: KE-21062
Philippines PICCS: Present
Indication of Danger:
T - Toxic.

**Risk Combination Phrases**

R23/25 - Toxic by inhalation and if swallowed.

Safety Phrases: S28 - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Safety Combination Phrases:

S20/21 - When using, do not eat, drink or smoke.

Poisons schedule No. (Aust)/Toxic Substance (NZ): S6 Poison.**13. OTHER INFORMATION****Prepared by:** Health & Safety

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End of Safety Data Sheet