



Material Safety Data Sheet

HAZARDOUS

Catalog Number: 219985

Revision date: 10-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: ZINC MOLYBDATE

Catalog Number: 219985

Synonyms: Not Available

UN/Id No: 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

IATA Hazard Label(s): Miscellaneous

Hazard Class: 9

- Other miscellaneous materials

Subsidiary risk: No Subsidiary Risk allocated

Packing group: III

Emergency Action Code (Hazchem code): 2X

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

Recommended use: Research product for non-human use

Component **Australia (AICS):**
ZINC MOLYBDATE Present
13767-32-3 (100)

3. PHYSICAL DESCRIPTION/PROPERTIES

Physical state: Solid

Formula: MoO₄Zn

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

Catalog Number: 219985

Product name: ZINC MOLYBDATE

Page 1 of 6

Flammable limits in air - lower (%) : Not determined
 Flammable limits in air - upper (%) : Not determined

4. INGREDIENTS

Components	CAS Number	Weight %	EC No.	Classification
ZINC MOLYBDATE	13767-32-3	100	--	F; N

5. HAZARDS IDENTIFICATION

Australia Hazardous Statement: Hazardous according to criteria of NOHSC



Indication of Danger:

F - Flammable.

N - Dangerous For The Environment.

Risk Phrases:

R17 - Spontaneously flammable in air.

R15 - Contact with water liberates extremely flammable gases.

R58 - May cause long-term adverse effects in the environment.

Safety Phrases:

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

S 7/8 - Keep container tightly closed and dry.

Category of Danger: Flammable , Dangerous for the environment

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

6. HEALTH HAZARD INFORMATION

HEALTH EFFECTS

EMERGENCY OVERVIEW:

Principle routes of exposure:

Inhalation:

Ingestion:

Skin contact:

Eye contact:

Statements of hazard

Flammable

Skin

May cause irritation of respiratory tract

May be harmful if swallowed.

May cause allergic skin reaction

Avoid contact with eyes

Flammable

Components	Australian Exposure Standards - Carcinogens	Australia - Exposure Standards - Short
ZINC MOLYBDATE	Not Listed	Not Listed

Components	Australia - Exposure Standards - Skin E	Australia - Exposure Standards - Time W
ZINC MOLYBDATE	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.
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, 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. Keep away from open flames, hot surfaces and sources of ignition

Stability:

Stable under recommended storage conditions.

Polymerization:

None under normal processing.

Hazardous decomposition products:

Molybdenum (Mo)

Materials to avoid:

-

Conditions to avoid:

Exposure to air or moisture over prolonged periods.

Spills and Disposal:**Personal precautions:****Environmental precautions:****Methods for cleaning up:****Waste from residues / unused products:**

Use personal protective equipment.

Prevent product from entering drains.

Sweep up and shovel into suitable containers for disposal.

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.

Do not re-use empty containers

Contaminated packaging:**Fire/Explosion Hazards:****Suitable extinguishing media:**

Dry powder Use dry chemical, CO2, water spray or 'alcohol' foam.

Specific hazards:

Burning produces irritant fumes.

Unusual hazards:

None known

Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes.

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
ZINC MOLYBDATE	Not Available	Not Determined

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.

Components	NIOSH - Health Effects	NIOSH - Target Organs
ZINC MOLYBDATE		eyes, respiratory system, liver, kidneys

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:
ZINC MOLYBDATE	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
ZINC MOLYBDATE	Not Listed	0.07 mg/L	LC50 (96 hr) fathead minnow:6400 - 10,900 ug/L;100 mg CaCO3/L;LC50 (96 hr) rainbow trout:4800 - 7200 ug/L;juveniles, 333 - 504 mg CaCO3/L;LC50 (96 hr) bluegill:5400 ug/L:20 mg CaCO3/L

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
ZINC MOLYBDATE	IC50 (96 hr) freshwater algae (Selenastrum capricornutum):30 ug/L:	Not Listed	LC50 (72 hr) water flea:5 - 14 ug/L:Cond: 30 °C

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
ZINC MOLYBDATE	Rank (of 275): 070	Not Listed	Maximum concentration = 120 ug/L; continuous concentration = 120 ug/L

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
ZINC MOLYBDATE	Not Listed	Maximum concentration = 90 ug/L; continuous concentration = 81 ug/L

11. TRANSPORT INFORMATION

IMDG/IMO

Proper shipping name:

IMDG - Hazard Classifications

IMDG - Marine Pollutants

IMDG - Marine Pollutants

IMDG - Regulated Substances

IMDG - Severe Marine Pollutants

Environmentally hazardous substance, solid, n.o.s.

IMDG class or division = 4.3 (UN1435); 4.3, 4.2 (UN1436)

Not Applicable

Not Applicable

UN1435 (ashes); UN1436 (powder or dust)

Not Applicable

IMO-labels:

Packing group:

Proper shipping name:

UN/Id No:

III

Environmentally hazardous substance, solid, n.o.s.

3077

ADR/RID

Australia Hazardous Statement:

Hazard Class

Item:

ADR/RID-labels:

UN/Id No:

Emergency Action Code (Hazchem code):

Proper shipping name:

Hazardous according to criteria of NOHSC

9

ZINC MOLYBDATE

Miscellaneous

3077

2X

Environmentally hazardous substance, solid, n.o.s.

ICAO:

Catalog Number: 219985

Product name: ZINC MOLYBDATE

Page 5 of 6

Hazard Class	9
Packing group:	III
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.

12. REGULATORY INFORMATION

International inventories:

ZINC MOLYBDATE

Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	237-377-8; MoO ₄ Zn
Korean KECL:	KE-25463

Philippines PICCS: Present

Indication of Danger:

F - Flammable.

N - Dangerous For The Environment.



Risk Phrases: R17 - Spontaneously flammable in air.
R15 - Contact with water liberates extremely flammable gases.
R58 - May cause long-term adverse effects in the environment.

Safety Phrases: .

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

Safety Combination Phrases:

S 7/8 - Keep container tightly closed and dry.

Poisons schedule No. (Aust)/Toxic Substance (NZ): Not required

13. OTHER INFORMATION

Prepared by: Health & Safety

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, MP Biomedicals does not guarantee the accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage maybe required. MP Biomedicals assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet