



# Material Safety Data Sheet

**HAZARDOUS**

Catalog Number: 208208

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:** LEAD STEARATE  
**Catalog Number:** 208208  
**Synonyms:** Bleistearat; Stearic Acid, Lead Salt

**UN/Id No:** 2291  
**Proper shipping name:** Lead compound, soluble, n.o.s.  
**IATA Hazard Label(s):** Toxic  
**Hazard Class:** 6.1  
- Toxic substances - oral  
**Subsidiary risk:** No Subsidiary Risk allocated  
**Packing group:** III

**Emergency Action Code (Hazchem code):** 2Z  
**Poisons schedule No. (Aust)/Toxic Substance (NZ):** S6 Poison.  
**Recommended use:** Research product for non-human use

<b>Component</b> LEAD STEARATE 7428-48-0 (100)	<b>Australia (AICS):</b> Present
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## 3. PHYSICAL DESCRIPTION/PROPERTIES

**Appearance and Odor:** White  
**Physical state:** Solid  
**Formula:**  $Pb(C_{18}H_{36}O_2)_2$   
**Molecular weight:** 207.2  
**Boiling point/range:** 1740 °C at 1013 hPa  
**Melting point/range:** 327.5 °C  
**Density:** 11.336 g/cm<sup>3</sup> at 20 °C  
**Vapor pressure:** 1.33 hPa at 973 °C  
**Solubility (in water):** Insoluble

Catalog Number: 208208

Product name: LEAD STEARATE

Page 1 of 6

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

#### 4. INGREDIENTS

Components	CAS Number	Weight %	EC No.	Classification
LEAD STEARATE	7428-48-0	100	231-068-1	T; N

#### 5. HAZARDS IDENTIFICATION

**Australia Hazardous Statement:** Hazardous according to criteria of NOHSC



##### Indication of Danger:

T - Toxic.  
 N - Dangerous For The Environment.

##### Risk Phrases:

R62 - Possible risk of impaired fertility.  
 R33 - Danger of cumulative effects.  
 R20/22 - Harmful by inhalation and if swallowed.  
 R53 - May cause long-term adverse effects in the aquatic environment.  
 R50 - Very toxic to aquatic organisms.  
 R61 - May cause harm to the unborn child.

##### Safety Phrases:

S53 - Avoid exposure - obtain special instructions before use.  
 S60 - This material and its container must be disposed of as hazardous waste.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
 S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Category of Danger:** Toxic , Dangerous for the environment , Repr. cat. 1 , Carc. cat. 3

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

#### 6. HEALTH HAZARD INFORMATION

##### HEALTH EFFECTS

##### EMERGENCY OVERVIEW:

Harmful to flora, fauna, soil organisms and aquatic organisms. 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
LEAD STEARATE	Not Listed	Not Listed

Components	Australia - Exposure Standards - Skin E	Australia - Exposure Standards - Time W
LEAD STEARATE	Not Listed	dusts and fumes, as Pb: 0.15 mg/m <sup>3</sup> TWA

## FIRST AID

<b>General advice:</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation:</b>	Move to fresh air. Call a physician immediately.
<b>Skin contact:</b>	Rinse immediately with plenty of water and seek medical advice
<b>Ingestion:</b>	Drink 1 or 2 glasses of water. Induce vomiting if person is conscious.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Protection of first-aiders:</b>	No information available
<b>Notes to physician:</b>	None
<b>Medical conditions aggravated by exposure:</b>	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.

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Polymerization:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Lead oxides
<b>Materials to avoid:</b>	-
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.

**Spills and Disposal:**

<b>Personal precautions:</b>	Use personal protective equipment.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods for cleaning up:</b>	Sweep up and shovel into suitable containers for disposal.
<b>Waste from residues / unused products:</b>	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.
<b>Contaminated packaging:</b>	Do not re-use empty containers

**Fire/Explosion Hazards:**

<b>Suitable extinguishing media:</b>	Use dry chemical, CO2, water spray or "alcohol" foam
<b>Specific hazards:</b>	Burning produces irritant fumes.
<b>Unusual hazards:</b>	None known
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Water mist may be used to cool closed containers.

**9. TOXICOLOGICAL INFORMATION****Product Information****Acute toxicity**

Components	RTECS Number:	Selected LD50s and LC50s
LEAD STEARATE	WI4300000	Oral LD50 Rat : 12428 mg/kg Oral LD50 Mouse : 10428 mg/kg

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Carcinogenic effects:</b>	Possible carcinogen
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	Reprotoxic category 1 corresponds to `substances known to cause developmental toxicity in humans`.

Components	NIOSH - Health Effects	NIOSH - Target Organs
LEAD STEARATE	Kidney, blood, and nervous system effects	GI tract, CNS, kidneys, blood, gingival tissue, eyes

**10. ECOLOGICAL INFORMATION**

<b>Mobility:</b>	No data available
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**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:
LEAD STEARATE	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
LEAD STEARATE	Not Listed	0.01 mg/L	LC50 (96 hr) brook trout:4.1 mg/L;;LC50 (96 hr) fathead minnow:6.5 mg/L;;Cond: 20 mg CaCO3/L

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
LEAD STEARATE	Not Listed	Not Listed	LC50 (48 hr) water flea: 600 ug/L

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
LEAD STEARATE	Rank (of 275): 002	Not Listed	Maximum concentration = 65 ug/L; continuous concentration = 2.5 ug/L

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
LEAD STEARATE	No human health criteria is being promulgated for these contaminants. However, permit authorities should address these contaminants during the permit process.	Maximum concentration = 210 ug/L; continuous concentration = 8.1 ug/L

## 11. TRANSPORT INFORMATION

### IMDG/IMO

**Proper shipping name:** Lead compound, soluble, n.o.s.  
**IMDG - Hazard Classifications** IMDG class or division = 6.1, P  
**IMDG - Marine Pollutants** UN2291  
**IMDG - Marine Pollutants** UN2291  
**IMDG - Regulated Substances** UN2291  
**IMDG - Severe Marine Pollutants** Not Applicable

### IMO-labels:

**Packing group:** III  
**Proper shipping name:** Lead compound, soluble, n.o.s.  
**UN/Id No:** 2291

### ADR/RID

**Australia Hazardous Statement:** Hazardous according to criteria of NOHSC  
**Hazard Class** 6.1  
**Item:** LEAD STEARATE

<b>ADR/RID-labels:</b>	Toxic
<b>UN/Id No:</b>	2291
<b>Emergency Action Code (Hazchem code):</b>	2Z
<b>Proper shipping name:</b>	Lead compound, soluble, n.o.s.

**ICAO:**

<b>Hazard Class</b>	6.1
<b>Packing group:</b>	III
<b>Proper shipping name:</b>	Lead compound, soluble, n.o.s.

**12. REGULATORY INFORMATION****International inventories:****LEAD STEARATE**

<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	231-068-1; C18H36O2.xPb
<b>Korean KECL:</b>	KE-26387

**Philippines PICCS:** Present**Indication of Danger:**

T - Toxic.

N - Dangerous For The Environment.

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**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**