



Material Safety Data Sheet

HAZARDOUS

Catalog Number: 157672

Revision date: 08-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: DIELDRIN
Catalog Number: 157672
Synonyms: Alvit, Dieldrex

UN/Id No: 2761
Proper shipping name: Organochlorine, pesticide, solid, toxic
IATA Hazard Label(s): Toxic
Hazard Class: 6.1
- Toxic substances - dermal
Subsidiary risk: No Subsidiary Risk allocated
Packing group: II

Emergency Action Code (Hazchem code): 2X
Poisons schedule No. (Aust)/Toxic Substance (NZ): S7 Dangerous Poison.
Recommended use: Research product for non-human use

Component **Australia (AICS):**
DIELDRIN Present
60-57-1 (100)

3. PHYSICAL DESCRIPTION/PROPERTIES

Appearance and Odor: White crystalline solid or light brown dry flakes; odorless or mild chemical odor.

Physical state: Solid

Formula: C₁₂H₈Cl₆O

Molecular weight: 380.93

Boiling point/range: Decomposes upon boiling.

Melting point/range: 177 °C

Density: 1.75 (water = 1)

Vapor pressure: Less than 8 x 10⁻⁷ mm Hg at 20 °C
7.78 x 10⁻⁷ mm Hg at 25 °C

Vapor density:	13.2 (air = 1)
Solubility (in water):	Practically not soluble
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
DIELDRIN	60-57-1	100	200-484-5	T+; N

5. HAZARDS IDENTIFICATION

Australia Hazardous Statement: Hazardous according to criteria of NOHSC



Indication of Danger:

T+ - Very toxic.

N - Dangerous For The Environment.

Risk Phrases:

R27 - Very toxic in contact with skin.

R40 - Limited evidence of a carcinogenic effect.

R53 - May cause long-term adverse effects in the aquatic environment.

R50 - Very toxic to aquatic organisms.

R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.

R25 - Toxic if swallowed.

Safety Phrases:

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

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

S60 - This material and its container must be disposed of as hazardous waste.

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

Category of Danger: Very Toxic , Dangerous for the environment , Carc. cat. 3

Poisons schedule No. (Aust)/Toxic Substance (NZ): S7 Dangerous Poison.

6. HEALTH HAZARD INFORMATION

HEALTH EFFECTS

EMERGENCY OVERVIEW:

Harmful to flora, fauna, soil organisms and aquatic organisms. Very toxic: danger of very serious irreversible effects in contact with skin. May also have serious irreversible effects through inhalation or ingestion.

Principle routes of exposure:

Skin

Inhalation:	Harmful: possible risk of irreversible effects through inhalation.
Ingestion:	Harmful: danger of serious damage to health if ingested.
Skin contact:	Very Toxic: danger of serious damage to health by prolonged skin contact.
Eye contact:	Risk of serious damage to eyes
Statements of hazard	Very toxic in contact with skin

Components	Australian Exposure Standards - Carcinogens	Australia - Exposure Standards - Short
DIELDRIN	Not Listed	Not Listed

Components	Australia - Exposure Standards - Skin E	Australia - Exposure Standards - Time W
DIELDRIN	skin absorption	0.25 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 thoroughly with plenty of water for at least 15 minutes and consult a physician Remove and wash contaminated clothing before re-use
Ingestion:	Call a physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Induce vomiting if person is conscious.
Eye contact:	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

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:	Use only in area provided with appropriate exhaust ventilation.
Safe handling advice:	Wear personal protective equipment. Remove and wash contaminated clothing before reuse.
Technical measures/storage conditions:	Keep containers tightly closed in a cool, well-ventilated place. 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:	Chloride/Hydrochloric acid
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, CO ₂ , 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
DIELDRIN	IO1750000	Inhalation LC50 Rat : 13 mg/m ³ /4H Oral LD50 Rat : 38300 ug/kg Oral LD50 Mouse : 38 mg/kg Dermal LD50 Rabbit : 250 mg/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:	Possible 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
DIELDRIN		CNS, liver, skin, kidneys (in animals: lung, liver, thyroid and adrenal gland tumors)

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:
DIELDRIN	Not Listed	DOT regulated severe marine pollutant	Original entry

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
DIELDRIN	3	0.03 ug/L	Not Listed

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
DIELDRIN	Not Listed	Not Listed	Not Listed

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
DIELDRIN	Rank (of 275): 018	Not Listed	Maximum concentration = 0.24 ug/L; continuous concentration = 0.056 ug/L

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
DIELDRIN	Water and organisms = 0.00014 ug/L; organisms only = 0.00014 ug/L	Maximum concentration = 0.71 ug/L; continuous concentration = 0.0019 ug/L

11. TRANSPORT INFORMATION

IMDG/IMO

Proper shipping name: Organochlorine, pesticide, solid, toxic
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: II
Proper shipping name: Organochlorine, pesticide, solid, toxic
UN/Id No: 2761

ADR/RID

Australia Hazardous Statement:
 Catalog Number: 157672

Hazardous according to criteria of NOHSC
 Product name: DIELDRIN

Hazard Class	6.1
Item:	DIELDRIN
ADR/RID-labels:	Toxic
UN/Id No:	2761
Emergency Action Code (Hazchem code):	2X
Proper shipping name:	Organochlorine, pesticide, solid, toxic

ICAO:

Hazard Class	6.1
Packing group:	II
Proper shipping name:	Organochlorine, pesticide, solid, toxic

12. REGULATORY INFORMATION**International inventories:**

DIELDRIN

Australia (AICS): Present**Inventory - China:** Present**EU EINECS List -** 200-484-5; C12H8Cl6O**Japan - Specified Chemical Substances** CLASS I; Products prohibited from import when containing Dieldrin: (1) wood preservatives, wood insecticides and wood fungicides, (2) paints (only those for preservatives, insecticides or fungicides,**Korean KECL:** KE-18415**Philippines PICCS:** Present**Contains:** DIELDRIN**Indication of Danger:**

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

S60 - This material and its container must be disposed of as hazardous waste.

S22 - Do not breathe dust.

Safety Combination Phrases:

S36/37 - Wear suitable protective clothing and gloves.

Poisons schedule No. (Aust)/Toxic Substance (NZ): S7 Dangerous Poison.**13. OTHER INFORMATION****Prepared by:** Health & Safety

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End of Safety Data Sheet