



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Rootfoam WP Herbicide
Other Names: Dichlobenil
Product Codes: -
Recommended Use: For the prevention of tree root regrowth and entry into sanitary, sullage, septic and stormwater sewers following mechanical clearance.
Chemical Family: -
Supplier: Chemtura Australia Pty Ltd
ABN: 005 225 507
Street Address: Level 7, 435 King William Street
Adelaide South Australia 5000
Telephone Number: 61 8 8112 0900
Facsimile Number: 61 8 8112 0999
Emergency Telephone: **1800 033 111 (24-hour service)**

2. HAZARDS IDENTIFICATION

Hazard Classification: **HAZARDOUS SUBSTANCE, DANGEROUS GOOD**
Classified according to the criteria of the National Occupational Health and Safety Commission (NOHSC).

Risk Phrases: Harmful (Xn)
R 21 ... Harmful in contact with skin.
Dangerous for the environment (N)
R51 Toxic to aquatic organisms
R52 Harmful to aquatic organisms
R53 May cause long term adverse effects in the aquatic environment

Safety Phrases: S(2) ... Keep out of reach of children
S36/37 Wear suitable protective clothing. Wear suitable gloves.
S61 Avoid release into the environment

Poisons Schedule: Schedule 6
Dangerous Goods Class: 9, Miscellaneous Dangerous Goods

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Identity	Common Name(s) and Synonym(s)	CAS Number	Proportion by Weight
2,6_Dichlorobenzonitrile	Dichlobenil	1194-65-6	850g/kg

Note: Australian and US Patents apply.

4. FIRST AID MEASURES

Ingestion:	Rinse mouth with water. Give patient plenty of water or drink. Do not induce vomiting. Seek immediate medical advice.
Inhalation:	Remove patient to fresh air – avoid becoming a casualty. If effects persist, seek medical advice.
Eye Contact:	Hold eye(s) open and flush with water for at least 15 minutes. Seek medical advice.
Skin Contact:	Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation occurs, seek medical advice.
Advice to Doctor:	Treat symptomatically.
First Aid Facilities:	Eye wash station.
Additional Information:	If poisoning occurs contact a doctor or Poison Information Centre. Phone Australia 131 126; New Zealand 03 4747 000

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Large fires: Alcohol-type foam or universal-type foams. Small fires: Carbon dioxide, dry chemical, water spray. Contain runoff.
Hazards from Combustion Products:	Irritating fumes. Oxides of carbon. Oxides of nitrogen.
Special Fire Fighting Procedures:	Do not discharge extinguishing waters into streams, rivers and lakes.
Special Protective Equipment for Firefighters:	Body covering protective clothing, full 'turn-out' gear. Self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	Avoid dispersion of dust in air to reduce potential for dust ignition/explosions.
HazChem Code:	2X

6. ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean-Up Procedures:	SPILLS : Wear protective equipment as outlined above, to prevent skin and eye contamination as well as inhalation of dust. Eliminate all ignition sources within at least 15 m. Do not touch or walk through spilled material. Preferably, vacuum up to avoid creating dust. Do not contaminate watercourses or drains with products or containers. Transfer into secure, sealed and properly labelled containers for disposal. Do not reuse container for any purpose. If there is contamination of crops or waterways, advise emergency services or State Department of Agriculture. DISPOSAL: For disposal after intended use: Do not dispose of undiluted chemicals on-site. Puncture or shred and bury containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. For disposal after spill or accident: Dispose of sealed containers at an approved local waste disposal site.
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7. HANDLING AND STORAGE

Conditions for Safe Storage:	Dangerous Good Class: 9 - Miscellaneous Correct Shipping Name: Environmentally Hazardous Substances, Solid, N.O.S. (contains dichlobenil) marine pollutant Packaging Group: III
	Store and transport in accordance with the Australian Code for the Transport of Dangerous Goods by Road & Rail. Marine Pollutant (International Maritime Dangerous Goods Code, 25th amendment).
	Store in original container, away from children, animals, food and feedstuffs. Storage must be secure, and locks and/or seals in order, so contents cannot be tampered with. Check regularly for leaks. Keep cool and dry and out of direct sunlight or other sources of heat and ignition.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards:	None allocated for this material by the National Occupational Health and Safety Commission (Work safe Australia).
Engineering Controls:	Provide sufficient ventilation to minimize dust exposure. Protect closed handling systems against possible dust explosions. Avoid dust accumulations in building or equipment surfaces. Keep containers closed when not in use.
Personal Protective Equipment (PPE):	Safety phrase(s): S36/37 Wear suitable protective clothing and gloves. Avoid personal contact. Do not inhale dust. Do not eat, drink or smoke while using. Wear overalls, safety glasses and impervious gloves. If dust is generated and there is danger of inhaling dust, wear a dust respirator (SCBA). After use and before eating, drinking, smoking or using the toilet, wash hands, arms and face thoroughly with soap and water. Launder clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white powder
Odour:	Aromatic odour
pH:	9.4 (concentration 10g/L)
Melting Point:	Not applicable
Boiling Point:	Not applicable
Solubility:	Not available
Density:	1.64 g/cm ³
Bulk density:	0.5kg/m ³
Vapour Pressure:	0.088Pa @ 20°C for active ingredient
Flashpoint:	216°C

10. STABILITY AND REACTIVITY

Chemical Stability:	This product is stable under normal storage and handling conditions.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Nitrogen and carbon oxides may be formed.
Hazardous Reactions:	Irritating fumes. Oxides of carbon. Oxides of nitrogen.
Polymerisation:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Acute Health Effects:

SWALLOWED:

LD50 - Rat
Result: 1166 mg/kg

SKIN ABSORPTION:

LD50 - Rabbit
Result: >2,000mg/kg

INHALATION:

LC50 - Rat
Result: >3.2mg/L
Exposure time: 4h

SKIN CONTACT:

Skin irritation: Species: Rabbit
Result: Mild irritation
Classification: Not irritant

EYE CONTACT:

Eye irritation: Species: Rabbit
Result: Mild irritation
Classification: Not irritant

Sensitization: Species: Guinea pigs
Result: Negative
Mutagenicity: Assessment: negative
Carcinogenicity: Assessment: negative
Toxicity to Assessment: negative
Reproduction/Fertility:

12. ECOLOGICAL INFORMATION

Ecotoxicity: Dichlobenil – Acute toxicity fish: LC50 – Result: 4.93-12.7mg/L. Exposure time: 96h
Dichlobenil – Aquatic toxicity to plants: IC50 – Algae - Result: 2-2.7mg/L. Exposure time: 72h
Dichlobenil – Acute toxicity to aquatic invertebrates: EC50 – Water flea (Daphnia magna). Result: 6.2mg/L. Exposure time: 48h

Persistence/Degradability: In soil dichlobenil gradually undergoes microbial degradation to 2,6-dichlorobenzamide, which is slowly broken down to 2,6-dichlorobenzoic acid. Half-life of dichlobenil in soil may vary between 1 to 6 months depending on soil type.

Mobility: Dichlobenil has low leaching potential

13. DISPOSAL CONSIDERATIONS

Disposal Method(s): For disposal after intended use: Do not dispose of undiluted chemicals on-site. Puncture or shred and bury containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.
For disposal after spill or accident: Dispose of sealed containers at an approved local waste disposal site.

Precautions for Landfill or Incineration: Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: 3077
UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (contains dichlobenil) Marine Pollutant.
DG Class & Subsidiary Risk: 9 – Miscellaneous
Packing Group: III
EPG/GTEPG: Guide 47
HazChem Code: 2X
Other Information: Store and transport in accordance with the Australian Code for the Transport of Dangerous Goods by Road & Rail. Marine Pollutant (International Maritime Dangerous Goods Code, 25th amendment).

Store in original container, away from children, animals, food and feedstuffs. Storage must be secure, and locks and/or seals in order, so contents cannot be tampered with. Check regularly for leaks. Keep cool and dry and out of direct sunlight or other sources of heat and ignition.

15. REGULATORY INFORMATION

Poisons Schedule: Schedule 6
Additional Information: APVMA Product No. 55624

16. OTHER INFORMATION

Date of Preparation: January, 2007
Revision Date:
Revision Number: 0
Revision Summary: Rev 0 – Update of earlier documentation to ASCC 16-header format.

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label carefully.

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