



SAFETY DATA SHEET

DACTHAL™

Date of Issue: 20 September 2011

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): chlorthal-dimethyl

Recommended use: Herbicide

Supplier: Etec Crop Solutions Limited
PO Box 51584
Pakuranga, Auckland
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Toxic -6.3B, 6.4A, 6.9B,
Ecotoxic - 9.1B

Required identification Details: ECOTOXIC
WARNING
HARMFUL

Keep out of reach of children
Toxic to aquatic organisms with long lasting effects.
Very toxic to some plant species.
May cause mild skin and eye irritation.
Repeated oral exposure at high doses is presumed to cause liver and thyroid gland toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Chlorthal-dimethyl	1861-32-1	75
Inert ingredients		25

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:	Remove victim to fresh air. Apply artificial respiration if necessary.
Ingestion:	Call the National Poison Centre 0800 poison (0800 764 766). Have a person sip a glass of water if able to swallow. Do not induce vomiting.
Skin contact:	Take off contaminated clothing. Rinse skin immediately for 15-20 minutes.
Eye contact:	If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Get medical attention if irritation persists.
Notes to a physician:	

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	2Z
Extinguishing media :	Water spray, fog, dry chemical, Carbon dioxide
Hazardous thermal (de)composition products:	Hazardous fumes of hydrogen chloride, carbon oxides and unidentified organic compounds when heated excessively or burned.
Protection of fire-fighters:	Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants ,waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.
Environmental precautions:	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
Methods for cleaning up:	In the case of spillage, contain and absorb spilled material with absorbent material such as sand clay or cat litter. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (ie organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or
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drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children.
Packaging materials:	Plastic bag inner, cardboard outer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: No exposure limit allocated.

**Exposure Standards outside:
The workplace:** No exposure standards have been set for this product or the active ingredients.

Engineering measures

Exposure control measures: Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: Do not inhale spray mist.

Skin and body: When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length and PVC gloves and goggles.

Hands: Elbow-length and PVC gloves

Eyes: Wear chemical goggles.

General hygiene: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Fine powder
Colour:	Grey
Odour:	Slight aromatic odour
pH:	7 to 8
Vapour Pressure:	0.21 mPa @25°C
Boiling Point:	>360°C
Freezing/melting point:	N/A
Solubility:	Disperses
Specific gravity or density:	N/A
Information for flammable material including:	N/A
Octanol/water partition coefficient:	Not available
Explosion properties:	Not an explosive
Oxidation properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Do not store below 4°C.
Conditions to avoid:	Excessive heat and sparks.
Materials to avoid:	Strong acids and bases will decompose the ester functions of Dacthal.
Hazardous decomposition Products:	This product may emit hazardous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. Wear self-contained breathing apparatus when these conditions are present.
Hazardous polymerization:	Will not occur
Specific Data:	
Hazardous reactions :	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral : LD₅₀	LD ₅₀ >10,000 mg/kg (Rat)
Acute toxicity - Dermal : LD₅₀	LD ₅₀ >10,000 mg/kg (Rabbit)
Acute toxicity – Inhalation: LC₅₀	23 mg/kg, 4 hr (Rat)
Skin irritation :	May cause mild skin irritation
Eye irritation:	May cause mild eye irritation.
Sensitization :	Not a known sensitizer.
Chronic toxicity	May show evidence of liver and thyroid gland toxicity with repeated exposure at high doses.
Carcinogenicity:	This product contains minute amounts of Hexachlorobenzene (HCB), which has been listed as a known carcinogen by IARC, NTP, and the state of California. HCB has also been listed as a reproductive hazard by the state of California. Dacthal® has been classified by EPA as a possible carcinogen (Group C). Dacthal is not classified as carcinogenic by ERMA NZ.

Other information :

12. ECOLOGICAL INFORMATION

Ecotoxicity	ECOTOXIC – do not contaminate sewers, drains, creeks or any other waterways with product or empty container. This pesticide is mildly toxic to some fish and aquatic organisms. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply directly adjacent to potable water supplies.
Bees	Slightly toxic.

Earthworms	None available
Soil	None available
Bioaccumulative potential :	None available
Birds	None available

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.

CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION -International transport regulations

UN number:	Not applicable
Class or Division:	Not regulated
Classification Code:	Not a Dangerous Good.
Packing Group:	IMDG Pack. Group Not applicable
Marine Pollutant:	No
Proper shipping name :	Not applicable
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Not regulated

15. REGULATORY INFORMATION

ACVM Registered Number:	P5898
HSNO Approval Code:	HSR000646

16. OTHER INFORMATION

Additional information:	Original Issue Date: 16 December 2005 Revision Date: 20 September 2011 Replaces: ES112
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Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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