

Material Safety Data Sheet

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Infosafe No™ 3NU43 Issue Date : February 2011 ISSUED by CRPCARE

Product Name **DACTHAL 900 WG Pre-Emergence Herbicide**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name DACTHAL 900 WG Pre-Emergence Herbicide
Product Code 0308
Product Type Group D Herbicide
Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address Unit 15/16 Metroplex Avenue Murarrie
Queensland 4172 Australia
Emergency Tel. 1800 033 498 (24hr Australia)
Telephone/Fax Number Tel: +61 7 3909 2000
Fax: +61 7 3909 2010
Recommended Use For pre-emergence weed control in certain vegetable crops including: Brassicas, beans, peas, garlic, onions, carrots, potatoes, turnips and for weed control in strawberries, cotton, lucerne, perennial grass crops, lawns and ornamentals as specified in the directions for use table on the label.
Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Not classified as hazardous
Other Information Poisons Schedule 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Chlorthal dimethyl	1861-32-1	900 g/Kg
	Talc	14807-96-6	<10%
	Dispersants		<10%

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice.
Ingestion Rinse mouth and then drink plenty of water.
If vomiting occurs, give more water to drink to assist dilution.
Seek medical advice if effects persist.
Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice if irritation develops or persists.
First Aid Facilities If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.
If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

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Hazards from Combustion Products Non-flammable. May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

Special Protective Equipment for fire fighters Breathable air apparatus may have to be worn in confined spaces.

Other Information STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. For personal protective equipment (PPE) and hygiene advice, refer Section 8. Avoid generating dusts while handling the product and mixing.

Conditions for Safe Storage Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Talc			2.5		
Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.					
Respiratory Protection	If dusts are present, wear a dust mask.					
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When preparing and using the product wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves, goggles and a disposable dust mask.					
Hygiene Measures	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.					
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.					

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid

Appearance Off white to tan granules

Odour Slight aromatic odour

Melting Point 155 - 162°C for chlorthal dimethyl

Solubility in Water Disperses in water. Solubility ~ 0.5mg/l

Vapour Pressure 0.21 mPa @ 25°C for chlorthal dimethyl

Octanol/Water Partition Coefficient Kow Log P is 4.3

Flammability Not Combustible

10. STABILITY AND REACTIVITY

Chemical Stability Strong acids and bases will hydrolyse the ester functional groups.

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Hazardous Reactions Keep away from strong oxidising agents.**Hazardous Polymerization** Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No harmful effects are expected if the precautions on the label and this MSDS are followed.

Inhalation Inhalation of dust may result in respiratory irritation.

Ingestion Low toxicity.
No specific symptoms. Possible generalised symptoms include nausea and vomiting.

Skin May irritate the skin.

Eye May irritate the eyes.

Mutagenicity Data indicates no mutagenic effects.

Carcinogenicity The US EPA has classified chlorthal dimethyl as Group C (possible human carcinogen, limited carcinogenicity in animals in the absence of human data) based on an increased incidence of benign thyroid tumours in both sexes of the rat (although only at very high doses in the female) and liver tumours in female rats and mice, at doses of 10 mg/kg/day in a long term study.

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for chlorthal dimethyl

Acute Toxicity - Dermal LD50 (rat) >2,000 mg/kg for chlorthal dimethyl

Acute Toxicity - Inhalation LC50 (rat) (4hr) >4.5 mg/l for chlorthal dimethyl

Eye Irritation Mild eye irritant.

Skin Irritation Mild skin irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for chlorthal dimethyl for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

12. ECOLOGICAL INFORMATION

Persistence / Degradability Average field half life of chlorthal dimethyl is 100 days.

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Environ. Protection Spray drift can cause damage, read the label for more information.

Acute Toxicity - Fish Not toxic to fish.
LC50 (96hr) for rainbow trout is >4.7 mg/l for chlorthal dimethyl
LC50 (48hr) for daphnia is >4.6 mg/l for chlorthal dimethyl.

Acute Toxicity - Daphnia

Acute Toxicity - Other Organisms Birds: Not toxic to birds. LD50 for bobwhite quail is >2,250 mg/kg
Slightly toxic to bees.

13. DISPOSAL CONSIDERATIONS

Product Disposal On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

Container Disposal Do not use this container for any other purpose.
Shake the last amount of product from the bag into application equipment. Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill.
If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable

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vegetation and tree roots.
Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Revised 28/02/2011

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information.

...End Of MSDS...

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