

Infosafe No™ 3NU43	Issue Date : February 2016	ISSUED by CRPCARE
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Product Name **DACTHAL 900 WG Pre-Emergence Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	DACTHAL 900 WG Pre-Emergence Herbicide
<b>Product Code</b>	0308
<b>Product Type</b>	Group D Herbicide
<b>Company Name</b>	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
<b>Address</b>	Unit 17/16 Metroplex Avenue Murarrie Queensland 4172 Australia
<b>Telephone/Fax Number</b>	Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For pre-emergence weed control in certain vegetable crops including: Brassicas, beans, peas, garlic, onions, carrots, lettuce, 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.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	SC-2 Skin Corrosion/Irritation: Category 2 ED2A Eye Damage/Irritation: Category 2A
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H315 Causes skin irritation. H319 Causes serious eye irritation.
<b>General Precautionary Statement (s)</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P264 Wash hands and exposed skin thoroughly after handling. P280 Wear protective gloves, clothing, eye and face protection.
<b>Precautionary statement – Response</b>	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
<b>Other Information</b>	Poisons Schedule 5

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chlorthal dimethyl	1861-32-1	900 g/kg
	Talc	14807-96-6	0-10 %
	Anionic dispersant		0-10 %



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## 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 contact** 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.

**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, including any incompatibilities** 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

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Talc			2.5		
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.					
<b>Respiratory Protection</b>	If dusts are present, wear a dust mask.					
<b>Personal Protective Equipment</b>	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.					
<b>Hygiene Measures</b>	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.					

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<b>Requirements Concerning Special Training</b>	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.
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## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Off white to tan granules
<b>Odour</b>	Slight aromatic odour
<b>Melting Point</b>	155 - 162°C for chlorthal dimethyl
<b>Solubility in Water</b>	Disperses in water.
<b>Vapour Pressure</b>	0.21 mPa @ 25°C for chlorthal dimethyl
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 4.3
<b>Flammability</b>	Not Combustible

## 10. Stability and reactivity

<b>Chemical Stability</b>	Strong acids and bases will hydrolyse the ester functional groups.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) >5,000 mg/kg for chlorthal dimethyl
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2,000 mg/kg for chlorthal dimethyl
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >4.5 mg/l for chlorthal dimethyl
<b>Ingestion</b>	Low toxicity. No specific symptoms. Possible generalised symptoms include nausea and vomiting.
<b>Inhalation</b>	Inhalation of dust may result in respiratory irritation.
<b>Skin</b>	May irritate the skin.
<b>Eye</b>	May irritate the eyes.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Serious eye damage/irritation</b>	The product is an eye irritant.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Skin corrosion/irritation</b>	The product is a skin irritant.
<b>Other Information</b>	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 2014).

## 12. Ecological information

<b>Persistence and degradability</b>	Average field half life of chlorthal dimethyl is 100 days.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.



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**Environmental 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

**Acute Toxicity - Daphnia**      LC50 (48hr) for daphnia is >4.6 mg/l for chlorthal dimethyl.

**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 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

**Regulatory Information**      Australia: WHS regulations (2011) - Schedule 11: classification not listed.

**Poisons Schedule**      S5

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

**Other Information**      This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 59137.

### 16. Other Information

**Date of preparation or last revision of SDS**      Revised 26/02/2015  
This SDS replaces document dated February 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 SDS was reviewed to include GHS requirements.  
Under the GHS criteria, this product is now classified as hazardous.  
...End Of MSDS...

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