


SAFETY DATA SHEET

CHLORBACK 75WG

1: Identification of the Substance and Supplier

Product Name	CHLORBACK 75WG
Recommended Use	Herbicide
Suppliers Details	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545
Web Address	www.orionagriscience.co.nz
Email Address	orders@orionagriscience.co.nz
Telephone Number	(03) 928 2386 (office hours), 0800 674 6627 (free phone)
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poison Centre	0800 POISON (0800 764 766) (24 hours)
Date of Issue/Revision	March 2025

2: Hazards Identification

Hazard Pictograms	
Signal Words	Warning
Hazard Classes:	Hazard Statements:
Eye Irritation (Cat. 2)	H319 Causes serious eye irritation
Specific target organ toxicity (repeated exposure) (Cat. 2)	H373 May cause damage to organs through prolonged or repeated exposure
Hazardous to the aquatic environment chronic (Cat. 2)	H411 Toxic to aquatic life with long lasting effects
Precautionary Statements:	
Prevention	P264 Wash hands thoroughly after handling P280 Wear eye protection / face protection P260 Do not breathe dust/fume/gas/mist/vapours/spray P273 Avoid release to the environment Keep out of reach of children. Read label before use. Avoid contact with eyes and skin. Do not breathe in the spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.
Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention P314 Get medical advice/attention if you feel unwell P391 Collect spillage First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).
Storage	Keep out of reach of children.
Disposal	P501 Dispose of contents by using it in accordance with this label. Dispose of the container via AgRecovery after triple rinsing (use the rinsate for spraying).

3: Composition/ Information on Ingredients

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Ingredient	CAS No	Content (% w/w)
Chlorthal-dimethyl (active ingredient)	1861-32-1	75
Other ingredients	Proprietary	Remainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor

Ingestion:	Seek medical advice if feeling unwell
Skin Contact:	Wash with plenty of soap and water. Seek medical advice if irritation occurs.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing. Seek medical advice if irritation persists.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling unwell.
Workplace Facilities:	Hand wash facility. Eye wash facility
Advice to Doctor:	No specific antidote. Treat symptomatically
National Poison Centre	0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion:	Nausea, vomiting, diarrhoea.
Skin Contact:	Irritation
Eye Contact:	Irritation
Inhalation:	May cause irritation

5: Fire-Fighting Measures

Fire/Explosion Hazard	Non-flammable. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates dust from the granules in enclosed or poorly ventilated areas.
HAZCHEM Code	2Z
ERP Guide No	47
Extinguishing Media	Water spray, foam, dry chemical or CO2. Avoid water jet.
Fire Fighting Instructions	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.
Specific Hazards Arising from Fire	No data available

6: Accidental Release Measures

Personal Precautions	Wear protective clothing as described in section 8. Do not inhale dust. Exclude non-essential people from the area.
Environmental Precautions	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
Clean Up	Moisten to prevent dusting and carefully sweep up. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill.

7: Handling and Storage

Storage:	Keep out of reach of children. Store in the original tightly closed container in a secure area.
Handling and Use:	Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals away from the area while spraying and for the duration of the REI.
Temporary use restrictions	This substance is subject to temporary use restrictions. Any use of the substance must be in accordance with the restrictions detailed in the section 64A decision: https://www.epa.govt.nz/links/chlorthal-dimethyl
REI	Until spray has dried. However, Pregnant individuals or individuals that may be pregnant must not enter the application plot for five days post application.

8: Exposure Controls / Personal Protection

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Tolerable Exposure Limit	None established
Workplace Exposure Standards	None established
Engineering Controls	Select spray application equipment to minimize exposure to operator and bystanders
Personal Protection:	
Eye	Safety glasses/goggles when mixing or applying
Skin	Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and applying
Respiratory	Not required where dust or spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance	Off White Granule
Odour	Mild musty
Odour Threshold	Does not apply
pH	6 - 8 (1% dispersion)
Melting Point/Freezing Point	Does not apply
Boiling Point	Does not apply
Flash Point	Does not apply
Flammability	Not flammable
Upper/Lower Flammability Limits	Does not apply. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates dust in enclosed or poorly ventilated areas
Vapour Pressure	Does not apply
Vapour Density	Does not apply
Relative Density	Does not apply
Solubility in Water	Dispersible
Partition Coefficient: n-octanol/water	See section 12
Auto ignition Temperature	Does not apply
Decomposition Temperature	Does not apply
Kinematic Viscosity	Does not apply
Particle characteristics	Does not apply

10: Stability and Reactivity

Stability	Stable under normal conditions
Hazardous Reactions	None Expected
Incompatibility	None Known
Hazardous Decomposition Products	None Known

11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral Toxicity	LD50 > 5000 mg/kg
Acute Dermal Toxicity	LD50 > 5000 mg/kg
Acute Inhalation Toxicity	LD50 > 5 mg/L
Skin corrosion/irritation	Irritation
Serious eye damage/Eye irritation	Irritation
Respiratory or skin sensitisation	Information not available
Germ cell mutagenicity	Information not available
Carcinogenicity	Information not available
Reproductive Toxicity	Possible endocrine effects on fetal development from exposure to chlorthal-dimethyl

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Specific Organ Toxicity – Single exposure

Information not available

Specific Organ Toxicity – Repeated exposure

In animal feeding studies on chlorthal dimethyl, signs of toxicity included mild to moderate tremors, wheezing, and nasal discharge. Beginning with the 2nd week, small skin lesions were noted on the face and head. Lesion severity increased and some gradually developed into deep sores. All animals survived the 28-day period. There was insufficient data to compare body weight gains and food consumption. Pathological changes included dark and congested livers, congested and pale kidneys and spleens; and kidney and liver weights were higher

Aspiration hazard

Information not available

12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following information is presented in respect of the active ingredient:

Ecotoxicity

- Acute Oral LD50 (Mammal) >5000 mg/kg
- LC50 (48 hr) (Rainbow trout) >4.7 mg/l
- EC50 (48 hr) (Daphnia) >4.6 mg/l
- EC50 (72 hr) (Algae) >10 mg/l
- Non-toxic to bees.

Persistence/degradability

Biodegradable

DT50 (soil) 59 days (typical)

Bioaccumulative Potential

Octanol-water partition coefficient

LogP = 4.28 (high)

Soil Mobility

Soil organic carbon water partitioning coefficient

Koc = 2963 (slightly mobile)

Environmental Exposure Limit:

None established

13: Disposal Considerations

Product

Dispose of product by using it in accordance with the label. Waste product should be disposed of to a suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container

Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods

UN Number

3077

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CHLORTHAL-DIMETHYL 75%)

Class

9

Subsidiary Class

None

Packing Group

III

Additional Information

MARINE POLLUTANT

MTQ (Non-Commercial)

1000 Kg

Passenger Service Vehicle

No restriction

15 Regulatory Information

EPA Approval No

HSR000646

ACVM Registration No

P8676

Qualified Person

Not required

Certified Handler

Not required

Workplace Only

No

Tracking

Not required

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Record Keeping	Not required
Site Requirements under EPA Notice and HSWHS Regs:	<ul style="list-style-type: none"> • A hazardous substance location compliance certificate is not required • A hazardous area is not required • Separation distances for class 3 and class 6 substances to protected places and public places is not applicable • Fire extinguishers are not required • Signage is required for more than 1000 Kg • An emergency response plan is required for more than 1000 Kg • Secondary containment is not required • Segregation from incompatible substances is not required
Temporary use restriction	<p>This substance is subject to temporary use restrictions. Any use of the substance must be in accordance with the restrictions detailed in the section 64A decision: https://www.epa.govt.nz/links/chlorthal-dimethyl</p> <p>The restrictions are as follows:</p> <ol style="list-style-type: none"> 1. The substance can only be used as a pre-emergent herbicide on allium crops as a single treatment per calendar year. 2. No mixing, loading, or application of the substance by pregnant individuals or individuals that may be pregnant. 3. Pregnant individuals or individuals that may be pregnant must not enter the application plot for five days post application. 4. Prior to application, signs must be erected at every vehicular and pedestrian point of entry to the application plot, and: <ol style="list-style-type: none"> a. The signs must remain in place for a minimum of five days post application of the substance; and b. signs must indicate: <ol style="list-style-type: none"> i. The name of the hazardous substance that has been applied; ii. Risk to fetal development from exposure of pregnant individuals; iii. Pregnant individuals or individuals that may be pregnant must not enter the application plot until [DATE], where [DATE] is at least five days after application of the substance; and c. The signs must be compliant with the requirements specified in regulation 2.5(2)(c) of the Health and Safety at Work (Hazardous Substances) Regulations 2017. 5. The substance must not be applied at a rate greater than 10.5 kg ai/ha. 6. The substance must not be applied within 30 metres of any track or road accessible to the public, public hut, dwelling, township, beach, or anywhere there is recreational activity in the area. 7. The substance must only be applied by a low boom sprayer using coarse (or larger) spray droplets, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (ASAE S572). 8. The substance must not be applied when wind speeds are less than 3 km/h or more than 20 km/h as measured at the application plot
Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information	
SDS review date	11 March 2025
Glossary	
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are expected over a lifetime of exposure
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
Cat.	GHS category
Ceiling	A concentration that should not be exceeded at any time during any part of the working day
Certified Handler	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and 6.1B)
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
GHS	Globally harmonized system of classification and labelling of chemicals

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Hazardous Substance Location	For locations storing hazard substances of certain classes above threshold quantities
Compliance Certificate	
Hazardous Area	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
HAZCHEM Code	Emergency action code for emergency services
HSWHS Regs	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% of organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user
Notification	Advance notice given to neighbours and other affected parties, of details of proposed application, and other details as described
Octanol-Water Partition Coefficient	The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10 form, as an indicator that a substance may bioaccumulate
PDE	Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of exposure
Protected Place	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where people assemble
Public Place	A place frequented by the public, including roads (does not include private property)
Qualified Person	A requirement for the loader, contractor or person applying the product to hold a qualification such as a GROWSAFE Certificate, Unit Standard 21563, etc.
Record Keeping	Includes a spray diary or other record of application
REI	Restricted Entry Interval - The length of time after application before entry into the treated area is permitted without the use of protective equipment. For indoor environments, this time period commences once ventilation after treatment begins.
Segregation	Certain classes of substances must not be in contact with, and must be stored separately from, certain other classes as specified in HSWHS Regs
Separation Distances	The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous substances and protected places and/or public places
Signage	Positioned at entrances to commercial premises providing information on the hazardous substances present
Soil Adsorption Coefficient (Kd)	The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid phase. The higher the value the less mobile the chemical is in soil
Soil Organic Carbon-Water Partitioning Coefficient (Koc)	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.
STEL	The higher the value the less mobile the chemical is in soil
Tolerable Exposure Limit	Short term exposure level - 15 minute time weighted average
Tracking	Maximum concentration limit of a substance above which persons must not be exposed
TWA	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use of the product
Workplace Exposure Standard	Time weighted average calculated over an 8 hour working day
Workplace Only	An occupational health standard limiting concentrations of specified substances to which persons are exposed
Please Note	A product that is restricted to a workplace only and under the supervision of a certified handler

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise

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themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.