

## Section 1: Identification

Product name:	Botran 75 WP
Other names:	Botran 75-W
Recommended use:	Fungicide
Manufacturer/Importer details:	Agritrade 1 Robin Mann Place Christchurch Airport 8053 Christchurch New Zealand  Phone: 03 372 0890 or 0800 333 855
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poison Centre:	0800 POISON (0800 764 766)

## Section 2: Hazard identification

HSNO Approval: Hazardous classifications:	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996. HSR000716 Acute oral toxicity Category 4, Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.
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Pictograms:



Signal wording:

**WARNING**

Hazard statements:

H302: Harmful if swallowed.  
H319: Causes serious eye irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
Hazardous to terrestrial vertebrates.

Additional label requirements:

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area  
Do not apply directly into or onto water

Prevention statements:

P102: Keep out of reach of children.  
P103: Read label before use  
P260: Do not breathe dust/mist/spray

<p>Response statements:</p> <p>Storage statement/s:</p> <p>Disposal statement/s:</p>	<p>P264: Wash hands thoroughly after handling.  P270: Do not eat, drink or smoke when using this product.  P271: Use only outdoors or in a well-ventilated area.  P273: Avoid release to the environment  P280: Wear protective eye/face protection, protection gloves/clothing.  P281: Use personal protective equipment as required.</p> <p>P101: If medical advice is needed, have product container or label at hand.  P301 + P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  P330: Rinse mouth.  P314: Get medical advice if you feel unwell.  P363: Wash contaminated clothing 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.  P391: Collect spillage.  Not required.</p> <p>P501: Dispose of product and containers in accordance with local Regulations. See section 13 for more details.</p>
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### Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w</i>
Dicloran	99-30-9	75.0 %
Other ingredients	Trade secret	25.0 %

### Section 4: First-aid measures

<p>First aid measures:</p> <p>Inhalation:</p> <p>Ingestion:</p> <p>Skin contact:</p> <p>Eye contact:</p>	<p>Remove any contaminated clothing. Seek medical advice if you feel unwell. Call the National Poisons Centre (0800 POISON; 0800 764 766) or a doctor. Have product container or label at hand.</p> <p>Move to fresh air if inhaled. Seek medical attention if you feel unwell.</p> <p>Do NOT induce vomiting. Rinse mouth. Seek medical attention if you feel unwell.</p> <p>Wash off with plenty of soap and water. Get medical advice if irritation persists.</p> <p>Rinse immediately with plenty of water. Remove contact lenses if present and easy to do and continue rinsing. Get medical attention if irritation persists.</p> <p>Provide eye baths and safety showers close to areas where product contact or splashing may occur.</p>
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First aid facilities:	Treat symptomatically.
Advice to doctor:	
<b>Section 5: Fire-fighting measures</b>	
Flammability:	Not classified as flammable nor combustible.
Appropriate extinguishing media:	Use water spray or alcohol-resistant foam for larger fires. Dry chemical, carbon dioxide or water spray may be used on small fires. Avoid using high volume water jet.
Combustion products:	In the event of a fire, unspecified harmful/toxic compounds may be released.
Special protective equipment and precautions for fire-fighters:	Wear self-contained breathing apparatus. Contain the spread of the fire-fighting media. Do not allow run-off from fire-fighting to enter drains or water courses.
HAZCHEM code:	2Z
<b>Section 6: Accidental release measures</b>	
Personal precautions:	Avoid contact with spilled product or contaminated surfaces. Use full personal protective equipment.
Environmental precautions:	Do not allow to enter surface water, drains and ground water. Notify local authority if contamination of any waterway.
Procedure for clean up:	Sweep up avoiding dust generation and collect into a labelled and container that can be tightly sealed. Wash contaminated area with water and detergent, absorb and put in container for disposal. Dispose of contaminated waste at an approved facility.
<b>Section 7: Handling and storage</b>	
Safe handling:	Ensure adequate ventilation. No specific precautions required when handling unopened packs/containers. When handling, wear full protective clothing. Mixing, loading and application must only be undertaken by a suitably qualified handler (See section 16 for further details).
Safe storage:	Store in original container tightly closed and in a secure, dry, cool, well-ventilated area, away from foodstuffs. Store in accordance with current version of NZS 8409 Management of Agrichemicals. Stores containing more than 100 kg are subject to requirements for signage, secondary containment, and emergency response plans.

## Section 8: Exposure controls/personal protection

Occupational exposure limits:

<i>Ingredient</i>	<i>Form of exposure</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
Particulates (not otherwise specified)	Inhalation	10 mg/m <sup>3</sup> for inhalable particulates	
		3 mg/m <sup>3</sup> for respirable particulates	

Biological limit value: None set as of 14<sup>th</sup> version of WorkSafe's Workplace Exposure Standards and Biological Exposure Indices – November 2023

Engineering controls: Use with adequate ventilation, i.e. outdoors.

Respiratory protection: Not required if used outdoors with adequate ventilation. If risk of inhalation, wear dust mark (EN149 Type P3) or respirator fitted with suitable filter for particulates.

Hand protection: Wear chemical resistant gloves, e.g. nitrile.

Eye protection: Wear chemical goggles.

Skin protection: Wear chemical resistant coveralls and closed in boots.

General hygiene: Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.

Personal Protection: Further information on specific types of personal protective gear and related standards is available in Section 16.

## Section 9: Physical and chemical properties

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|---|----------------------------------|
| (a) Appearance:                                   | Yellow powder                    |
| (b) Odour:  | Slight analine odour             |
| (c) Odour threshold:                              | Not available                    |
| (d) pH:   | Not available                    |
| (e) Melting point/freezing point:                 | 193 – 194 °C (active ingredient) |
| (f) Initial boiling point and boiling range:      | Not applicable                   |
| (g) Flash point:                                  | >100°C                           |
| (h) Flammability (solid, gas):                    | Not classified as flammable      |
| (i) Upper/lower flammability or explosive limits: | Not available                    |
| (j) Vapour pressure:                              | Not applicable                   |
| (k) Vapour density:                               | Not available                    |
| (l) Relative density:                             | Not available                    |
| (m) Solubility:                                   | Soluble                          |
| (n) Partition coefficient n-octanol/water:        | Not available                    |

(o)	Auto-ignition temperature:	Not available						
(p)	Decomposition temperature:	Not available						
(q)	Kinematic viscosity:	Not available						
<b>Section 10: Stability and reactivity</b>								
Stability of the substance:		Stable under normal conditions of storage and use.						
Conditions to avoid:		None specified.						
Incompatible materials:		No particular incompatible materials identified. Store only in the original container.						
Hazardous decomposition products:		No decomposition products expected under normal conditions of use.						
<b>Section 11: Toxicological information</b>								
Toxicity classifications determined by assessment of the components in the formulated mixture.								
(i)	Acute toxicity:	Classified as harmful by ingestion.						
(ii)	Aspiration hazard:	Not classified as aspirant hazard						
(iii)	Respiratory irritation:	Not classified as irritating.						
(iv)	Skin corrosion / irritation:	Not classified as skin irritant nor as corrosive.						
(v)	Serious eye damage / irritation:	Dicloran is identified as an eye irritant.						
(vi)	Respiratory or skin sensitisation:	Not classified as a respiratory or contact sensitizer.						
(vii)	Germ cell mutagenicity:	Not classified for mutagenic effects.						
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.						
(ix)	Reproductive toxicity:	Not classified for reproductive toxicity.						
(x)	Specific organ toxicity:	Classified as may cause damage to organs (liver) or systems from prolonged or repeated exposure.						
(xi)	Narcotic effects:	Not classified for narcotic effects.						
Toxicological information for product:		<table> <tbody> <tr> <td>Oral LD<sub>50</sub> (rat)</td> <td>&gt; 5000 mg/kg</td> </tr> <tr> <td>Dermal LD<sub>50</sub> (rat)</td> <td>&gt; 5000 mg/kg</td> </tr> <tr> <td>Inhalation LD<sub>50</sub> (rat)</td> <td>&gt; 2.06 mg/L</td> </tr> </tbody> </table>	Oral LD <sub>50</sub> (rat)	> 5000 mg/kg	Dermal LD <sub>50</sub> (rat)	> 5000 mg/kg	Inhalation LD <sub>50</sub> (rat)	> 2.06 mg/L
Oral LD <sub>50</sub> (rat)	> 5000 mg/kg							
Dermal LD <sub>50</sub> (rat)	> 5000 mg/kg							
Inhalation LD <sub>50</sub> (rat)	> 2.06 mg/L							
<b>Section 12: Ecological information</b>								
Ecotoxicological classifications determined by assessment of the components in the formulated mixture.								
(a)	Aquatic toxicity:	Very toxic to aquatic life and with long lasting effects						
(b)	Soil environment	Not classified as hazardous to the soil environment.						

(c) Terrestrial vertebrate toxicity:	Harmful to terrestrial vertebrates.
(d) Terrestrial invertebrate toxicity:	Not classified
(e) Persistence and degradability:	Persistent in soils but not in water [PPDB]
(f) Potential to be bioaccumulative:	Not expected to bioaccumulate.
(g) Mobility in soil:	Slightly mobile in soil ( $K_{foc}$ ): 812 mL/g [PPDB]
Ecotoxicological information for Dicloran:	<p>Fish: <i>Rainbow trout</i> Acute <math>LC_{50}</math> (96h) 0.48mg/L [PPDB]  Crustacea: <i>Daphnia magna</i> <math>LC_{50}</math> (48h) 2.07mg/L  Algae: <i>Scenedesmus subspicatus</i> <math>EC_{50}</math> (growth) (72h):1.2mg/L  Birds: <i>Redneck pheasant</i> <math>LD_{50}</math> 500mg/kg b.w.  Birds: <i>Colinus virginianus</i> Acute <math>LD_{50}</math> 286mg/kg  Bees: <i>Apis spp.</i> Contact acute <math>LD_{50}</math> 18<math>\mu</math>g/bee  Bees: <i>Apis spp.</i> Oral acute <math>LD_{50}</math> &gt;113<math>\mu</math>g/bee  Earthworms: <i>Eisenia foetida</i> Acute 14 day <math>LC_{50}</math> &gt;885mg/kg</p>
<b>Section 13: Disposal considerations</b>	
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.
Container disposal:	Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.
<b>Section 14: Transport information</b>	
UN number:	3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (DICLORAN 75%)
UN class:	9
Packing group:	III
Subsidiary risk:	-
HAZCHEM\:	2Z
Environmental hazards:	Marine Pollutant
Special precautions:	This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information
<b>Section 15: Regulatory information</b>	
HSNO:	Approved substance under the HSNO Act 1996.
HSNO approval number:	HSR000716
Tolerable exposure limit / environmental exposure limit:	None set at this time

HSNO controls:	
Additional controls:	See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> Do not apply into or onto water.
ACVM:	
ACVM registration number:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
Conditions of registration:	P002584 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a>

## Section 16: Other information

Date of issue:	10 October 2024
Reason for reissue:	Update to GHS7
Replaces:	SDS issued 20/07/2020
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: <b>AS/NZS 1715</b> , Protective Gloves: <b>AS 2161</b> , Occupational Protective Clothing: <b>AS/NZS 4501</b> , Industrial Eye Protection: <b>AS1336</b> and <b>AS/NZS 1337</b> , Occupational Protective Footwear: <b>AS/NZS2210</b>
Qualifications for handling:	This product must only be handled, including mixing and loading, by persons who are suitably qualified. These qualifications are specified in sections 60 and 63 of the EPA's Hazardous Substances (Hazardous Property Controls) Notice 2017.

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.