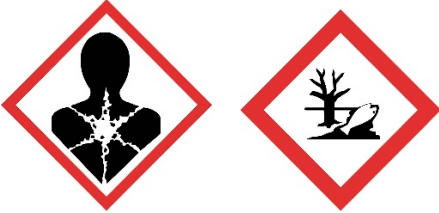


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Section 1: Identification	
Product name:	MACSPRED Dismiss™ Ornamental Herbicide
Other names:	-
Recommended use:	Herbicide granules for pre-emergent control of weeds in containers and in-ground ornamental plants.
Importer/Distributor details:	PRIMEHORT Distributors Limited 2180 State Highway One Kaiwaka PO Box 28 Maungaturoto 0547 New Zealand
24 hour emergency contact:	Phone: 0800 12 7746
National Poisons Centre:	0800 POISON (0800 764 766)
Section 2: Hazard identification	
HSNO Approval:	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2020 of the HSNO Act, 1996. HSR000539
Hazardous classification:	Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to the aquatic environment chronic Category 2.
Pictograms:	
Signal word:	WARNING
Hazard statements:	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Very toxic to the soil environment.
Prevention statements:	Read label before use. Do not breathe dust. Avoid release to the environment.
Response statements:	Get medical advice if you feel unwell. Collect spillage.
Storage statement/s:	-
Disposal statement/s:	Dispose of product and containers in accordance with local Regulations. See section 13 for more details.

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Section 3: Composition/information on ingredients																
Chemical identity of ingredients with health or environmental hazards:	<table border="1"> <thead> <tr> <th><i>Ingredient</i></th> <th><i>CAS No.</i></th> <th><i>Proportion %w/w</i></th> </tr> </thead> <tbody> <tr> <td>Oxyfluorfen</td> <td>42874-03-3</td> <td>2.0</td> </tr> <tr> <td>Oryzalin</td> <td>19044-88-3</td> <td>1.0</td> </tr> <tr> <td>Calcium carbonate</td> <td>1317-65-3</td> <td>>60</td> </tr> <tr> <td>Other ingredients</td> <td>Trade secret</td> <td>Balance</td> </tr> </tbody> </table>	<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion %w/w</i>	Oxyfluorfen	42874-03-3	2.0	Oryzalin	19044-88-3	1.0	Calcium carbonate	1317-65-3	>60	Other ingredients	Trade secret	Balance
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Section 4: First-aid measures																
First aid measures:	Get medical advice if you feel unwell after using. If medical advice is needed contact the National Poisons Centre tel 0800 POISON (0800 764 766) or a doctor. Never give anything by mouth to an unconscious person. Seek medical attention.															
Inhalation:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.															
Ingestion:	If accidentally swallowed obtain immediate medical attention. Rinse mouth. Do NOT induce vomiting.															
Skin contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, get medical advice.															
Eye contact:	Rinse cautiously with water for several minutes, holding the eyelids apart. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.															
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.															
Advice to doctor:	Treat symptomatically.															
Section 5: Fire-fighting measures																
Flammability:	Non-flammable															
Appropriate extinguishing media:	Carbon dioxide or dry powder. Do not use water jet.															
Combustion products:	Combustion may yield smoke, carbon monoxide, and other unidentified compounds that may be harmful/toxic including products of incomplete combustion.															
Special protective equipment and precautions for fire-fighters:	Wear standard protective equipment and self-contained breathing apparatus															
HAZCHEM code:	2Z															
Section 6: Accidental release measures																
Personal precautions:	Wear full protective equipment including eye/face protection. Do not allow spill to enter drains or watercourses. Notify local public health authority if significant amount of product does enter waterways.															
Environmental precautions:	Contain and collect up spillage into labelled container that can be sealed. Reuse if possible, otherwise dispose of to an approved landfill.															

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Section 7: Handling and storage		
Safe handling:	Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash hands before eating, drinking, smoking. Remove contaminated clothing and laundry before re-use	
Safe storage:	Store in tightly closed containers in dry, well-ventilated area away from children, domestic animals, seeds, animal feed or foodstuffs. Storage must be generally in accordance with the current version of NZS 8904 Management of Agrichemicals.	
Section 8: Exposure controls/personal protection		
Occupational exposure limits:	An occupational exposure limit is set for a component in the latest version (12 th edition, published November 2020) of WorkSafe's WES values. Calcium carbonate 10ng/m ³	
Biological limit value:	No BEI's set according to WorkSafe's 12 th edition (November 2020) of BEI values.	
Engineering controls:	Provide adequate ventilation.	
Respiratory protection:	It is good practice to wear a dust mask (P2 for particulates) when using this product.	
Hand protection:	Gloves should be worn that protect skin from exposure.	
Eye protection:	Safety eyewear (glasses with side shields or goggles) should be worn.	
Skin protection:	Overalls which cover the body, arms and legs should be worn.	
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.	
Section 9: Physical and chemical properties		
(a)	Appearance:	Free-flowing brown granules
(b)	Odour:	Mild
(c)	Odour threshold:	Not established
(d)	pH:	8.9 (1% dispersion in water)
(e)	Melting point/freezing point:	Oxyfluorfen 62 – 82°C; oryzalin 141 -142°C
(f)	Initial boiling point and boiling range:	Not applicable
(g)	Flash point:	Not applicable
(h)	Flammability (solid, gas):	Not applicable
(i)	Upper/lower flammability or explosive limits:	Not applicable
(j)	Vapour pressure:	Negligible
(k)	Vapour density:	Not applicable
(l)	Relative density:	Bulk density 1.4

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(m)	Solubility (ies):	Insoluble in water
(n)	Partition coefficient n-octanol/water:	Not measured
(o)	Auto-ignition temperature:	Not measured
(p)	Decomposition temperature:	Not measured
(q)	Kinematic viscosity:	Not applicable
(r)	Particle characteristics:	Not available

Section 10: Stability and reactivity

Stability of the substance:	Stable under normal conditions of storage and use.
Conditions to avoid:	Extended exposure to high temperatures.
Incompatible materials:	None identified.
Hazardous decomposition products:	Carbon oxides, fluorine compounds including hydrogen fluoride gas.

Section 11: Toxicological information

(i)	Acute toxicity:	Toxicity classifications determined by assessment of the components in the formulated mixture. Not classified as acutely toxic if ingested, in contact with skin or inhaled.
(ii)	Aspiration hazard:	Not classified as aspirant hazard
(iii)	Respiratory irritation:	Not classified as irritating to mucous membranes or respiratory tract
(iv)	Skin corrosion / irritation:	Not classified as skin irritant or corrosive
(v)	Serious eye damage / irritation:	Not classified as eye irritant or corrosive
(vi)	Respiratory or skin sensitisation:	Not classified as respiratory or skin sensitiser. Some suppliers of oryzalin identify as a contact sensitiser.
(vii)	Germ cell mutagenicity:	Not classified as mutagen
(viii)	Carcinogenicity:	Not classified as carcinogen
(ix)	Reproductive toxicity:	Not classified as a reproductive toxicant
(x)	Specific organ toxicity:	Classified as may cause adverse effects through repeated or prolonged exposure. Oxyfluorfen is identified as affecting the liver; NOAEL is 33 mg/kg/day for dogs and male mice, 42 mg/kg/day for female mice. Oryzalin may affect the blood/hematopoietic system.
(xi)	Narcotic effects:	Not classified for narcotic effects.
Toxicological information:		<u>Oxyfluorfen</u> Mouse, Oral LD ₅₀ : 2700 - 5000 mg/kg bodyweight Oryzalin Cat, Oral LD ₅₀ : 1000 mg/kg bodyweight

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Section 12: Ecological information

	Ecotoxicological classifications determined by assessment of the components in the formulated mixture.
(a) Aquatic toxicity:	Classified as toxic to aquatic life with long lasting effects.
(b) Soil organism toxicity:	Classified as very toxic in the soil environment.
(c) Terrestrial vertebrate toxicity:	Not classified as a terrestrial vertebrate toxicant
(d) Terrestrial invertebrate toxicity:	Not classified as a terrestrial invertebrate toxicant
(e) Persistence and degradability:	Neither oxyfluorfen nor oryzalin are readily degradable. DT ₅₀ > 30 days.
(f) Potential to be bioaccumulative:	Oxyfluorfen is bioaccumulative.
(g) Mobility in soil:	Granule is not soluble.

Ecotoxicological information:	<u>Oxyfluorfen</u> Fish, <i>Gammarus fasciatus</i> LC ₅₀ (96 hr) 0.19 mg/L Duckweed, <i>Lemna gibba</i> , EC ₅₀ (120 hr) 0.015 mg/L Bobwhite quail LD ₅₀ 506.7 mg/kg Honey bee LD ₅₀ (48 hr) 11 µg/bee <u>Oryzalin</u> Fish, bluegill sunfish LC ₅₀ (96hr) 0.2 mg/L Algae, <i>Scenedesmus acutus</i> EC ₅₀ 5.04 mg/L Cabbage, EC ₂₅ 0.00054 mg/kg dry soil
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Other information:	Take all reasonable steps to ensure that the product does not cause any significant effects to the environment beyond the application area. Do not apply directly into or onto water.
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Section 13: Disposal considerations

Product disposal:	Dispose of this product only by using according to the label or through chemical disposal service or to an approved landfill.
Container disposal:	Recycle if possible through an approved agrichemical service 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.

Section 14: Transport information

UN number:	3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (OXYFLUORFEN 2%, ORYZALIN 1%)
UN class:	9
Packing group:	III
Subsidiary risk:	Nil
Special precautions:	Nil
Marine Pollutant:	Yes

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Section 15: Regulatory information

HSNO Act 1996:	
HSNO approval number:	HSR000539
Tolerable exposure limit / environmental exposure limit:	None set
HSNO controls:	See www.epa.govt.nz
Additional controls:	Do not apply into or onto water.
	Written record of use required if 3 kg or more is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area. Record must be kept for at least 3 years after date of application or discharged.
	Qualified handler required.
ACVM Act 1997:	Exempt registration under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	Not applicable.
Conditions of registration:	Not applicable.

Section 16: Other information

Date of issue:	13 October 2021
Reason for reissue:	New product
Replaces:	Not applicable
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: AS/NZS 1715 , Protective Gloves: AS 2161 , Occupational Protective Clothing: AS/NZS 4501 , Industrial Eye Protection: AS1336 and AS/NZS 1337 , Occupational Protective Footwear: AS/NZS2210

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.