

# SAFETY DATA SHEET

## BEETALL PD

### 1: Identification of the Substance and Supplier

Product Name	<b>BEETALL PD</b>
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	<a href="http://www.orionagriscience.co.nz">www.orionagriscience.co.nz</a>
Email Address	<a href="mailto:orders@orionagriscience.co.nz">orders@orionagriscience.co.nz</a>
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	Jan 2025

### 2: Hazards Identification

#### Hazard Pictograms



#### Signal Words

##### Hazard Classes:

Skin sensitisation Category 1  
Specific target organ toxicity (repeated exposure) Category 2  
Serious eye damage Category 1  
Hazardous to the aquatic environment acute Category 1  
Hazardous to the aquatic environment chronic Category 1  
Hazardous to soil organisms

##### Precautionary Statements:

Prevention

Response

#### Danger

##### Hazard Statements:

H317 May cause an allergic skin reaction  
H373 May cause damage to organs through prolonged or repeated exposure  
H318 Causes serious eye damage  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
H422 Toxic to the soil environment

P101 If medical advice is needed, have product container or label at hand  
P102 Keep out of reach of children  
P264+P265 Wash hands thoroughly after handling. Do not touch eyes.  
P272 Contaminated work clothing should not be allowed out of the workplace  
P273 Avoid release to the environment  
P260 Do not breathe dust/fume/gas/mist/vapours/spray  
P280 Wear protective gloves and eye protection/face protection  
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.

P302+P352 IF ON SKIN: Wash with plenty of water  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P321 Specific treatment (See first aid instructions)  
P362+P364 Take off contaminated clothing and wash it before reuse  
P314 Get medical advice/attention if you feel unwell  
P391 Collect spillage

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Storage  
Disposal

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing  
P310 Immediately call a POISON CENTRE/doctor  
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).  
Keep out of reach of children.  
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

Ingredient	CAS No	Content (% w/v)
Desmedipham (active ingredient)	13684-56-5	16
Phenmedipham (active ingredient)	13684-63-4	16
Isotridecanol, ethoxylated	69011-36-5	<10
1,2-Benzisothiazolin-3-one	2634-33-5	<0.1
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

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

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

<b>Ingestion:</b>	Photodermatitis, hypoactivity, salivation, muscle weakness, nasal discharge, and laboured breathing
<b>Skin Contact:</b>	Irritation. Contact may induce an allergic response in susceptible individuals
<b>Eye Contact:</b>	Irritation and serious eye damage
<b>Inhalation:</b>	No data available

### 5: Fire-Fighting Measures

<b>Fire/Explosion Hazard</b>	Non-Flammable
<b>HAZCHEM Code</b>	3Z
<b>ERP Guide No</b>	47
<b>Extinguishing Media</b>	Water spray, foam, dry chemical or CO2. Avoid water jet.
<b>Fire Fighting Instructions</b>	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.
<b>Specific Hazards Arising from Fire</b>	No data available

### 6: Accidental Release Measures

<b>Personal Precautions</b>	Caution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in section 8. Exclude non-essential people from the area.
<b>Environmental Precautions</b>	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

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### Clean Up

Absorb spillage with inert material such as spill kit, sand or cat litter. 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

<b>Storage:</b>	Keep out of reach of children. Store in the original tightly closed container in a secure area.
<b>Handling and Use:</b>	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.
<b>REI</b>	Until spray has dried

## 8: Exposure Controls / Personal Protection

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

Clean protective equipment after use

## 9: Physical and Chemical Properties

<b>Appearance</b>	Off White Opaque Liquid
<b>Odour</b>	Slight
<b>Odour Threshold</b>	Does not apply
<b>pH</b>	4 - 6 (1% dispersion)
<b>Melting Point/Freezing Point</b>	< 0°C
<b>Boiling Point</b>	> 100°C
<b>Flash Point</b>	Does not apply
<b>Flammability</b>	Does not apply
<b>Upper/Lower Flammability Limits</b>	Does not apply
<b>Vapour Pressure</b>	Does not apply
<b>Vapour Density</b>	Does not apply
<b>Relative Density</b>	1.06 g/mL (approx.)
<b>Solubility in Water</b>	Dispersible
<b>Partition Coefficient: n-octanol/water</b>	See section 12
<b>Auto ignition Temperature</b>	Does not apply
<b>Decomposition Temperature</b>	Does not apply
<b>Kinematic Viscosity</b>	Does not apply
<b>Particle characteristics</b>	Does not apply

## 10: Stability and Reactivity

<b>Stability</b>	Stable under normal conditions
<b>Hazardous Reactions</b>	None Expected
<b>Incompatibility</b>	None Known

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### 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 and serious eye damage
Respiratory or skin sensitisation	Potential contact sensitiser in susceptible individuals
Germ cell mutagenicity	Information not available
Carcinogenicity	Information not available
Reproductive Toxicity	Information not available
Specific Organ Toxicity – Single exposure	Information not available
Specific Organ Toxicity – Repeated exposure	May cause organ damage from repeated ingestion at high doses
Aspiration hazard	Information not available

## 12: Ecotoxicity 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	<b>Desmedipham</b>	
	<ul style="list-style-type: none"><li>Acute Oral LD50 (Bobwhite quail) &gt;2000 mg/kg</li><li>LC50 (96 hr) (Rainbow trout) 1.4 mg/l</li><li>EC50 (48 hr) (Daphnia) 0.45 mg/l</li><li>LC50 (72 hr) (Algae) 0.01 mg/l</li><li>Very toxic to plant species (herbicide)</li><li>Non - toxic to bees</li></ul>	
	<b>Phenmedipham</b>	
	<ul style="list-style-type: none"><li>Acute Oral LD50 (Bobwhite quail) &gt;2000 mg/kg</li><li>LC50 (96 hr) (Rainbow trout) 1.7 mg/l</li><li>EC50 (48 hr) (Daphnia) 0.41 mg/l</li><li>LC50 (96 hr) (Algae) 0.09 mg/l</li><li>Very toxic to plant species (herbicide)</li><li>Non - toxic to bees</li></ul>	
Persistence/degradability	Biodegradable. DT50 (soil) 52 days (typical) (Desmedipham) Biodegradable. DT50 (soil) 12 days (typical) (Phenmedipham)	
Bioaccumulative Potential	Octanol-water partition coefficient	LogP = 2.7 (moderate) (Desmedipham) LogP = 2.7 (moderate) (Phenmedipham)
Soil Mobility	Soil organic carbon water partitioning coefficient	Not available (Desmedipham) Koc = 1775 (slightly mobile) (Phenmedipham)
Environmental Exposure Limit:	None established	

## 13: Disposal Considerations

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<b>Product</b>	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.
<b>Container</b>	Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other purpose.

### 14: Transport Information

<b>Dangerous Goods</b>	
<b>UN Number</b>	3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DESMEDIPHAM 16%, PHENMEDIPHAM 16%)
<b>Class</b>	9
<b>Subsidiary Class</b>	None
<b>Packing Group</b>	III
<b>Additional Information</b>	MARINE POLLUTANT
<b>MTQ (Non-Commercial)</b>	1000 litres
<b>Passenger Service Vehicle</b>	Maximum quantity 1 litre.

### 15 Regulatory Information

<b>EPA Approval No</b>	HSR101171
<b>ACVM Registration No</b>	P9315
<b>Qualified Person</b>	Required
<b>Certified Handler</b>	Not required
<b>Workplace Only</b>	No
<b>Tracking</b>	Not required
<b>Record Keeping</b>	Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)
<b>Site Requirements under EPA Notice and HSWHS Regs:</b>	<ul style="list-style-type: none"><li>• A hazardous substance location compliance certificate is not required</li><li>• A hazardous area is not required</li><li>• Separation distances for class 3 and class 6 substances to protected places and public places is not applicable</li><li>• Fire extinguishers are not required</li><li>• Signage is required for more than 100 litres</li><li>• An emergency response plan is required for more than 100 litres</li><li>• Secondary containment is required for more than 100 litres</li><li>• Segregation from incompatible substances is not required</li></ul>
<b>Application Methods</b>	This substance must be applied using ground based methods only
<b>Additional Requirements</b>	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

### 16: Other Information

<b>SDS review date</b>	10 January 2025
<b>Glossary</b>	
<b>ADE</b>	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are expected over a lifetime of exposure
<b>ACVM</b>	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
<b>Cat.</b>	GHS category
<b>Ceiling</b>	A concentration that should not be exceeded at any time during any part of the working day
<b>Certified Handler</b>	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and 6.1B)
<b>DT50</b>	Time (days) for 50% reduction in concentration

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<b>EC50</b>	Concentration required to produce an effect in 50% of organisms
<b>Environmental Exposure Limit</b>	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
<b>EPA Notice</b>	Hazardous Property Controls Notice 2017
<b>ERP Guide</b>	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
<b>GHS</b>	Globally harmonized system of classification and labelling of chemicals
<b>Hazardous Substance Location</b>	For locations storing hazard substances of certain classes above threshold quantities
<b>Compliance Certificate</b>	
<b>Hazardous Area</b>	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
<b>HAZCHEM Code</b>	Emergency action code for emergency services
<b>HSWHS Regs</b>	Health and Safety at Work (Hazardous Substances) Regulations 2017
<b>LC50</b>	Concentration that will kill 50% of organisms
<b>LD50</b>	Dose that will kill 50% of organisms
<b>MTQ</b>	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user
<b>Notification</b>	Advance notice given to neighbours and other affected parties, of details of proposed application, and other details as described
<b>Octanol-Water Partition Coefficient</b>	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
<b>PDE</b>	Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of exposure
<b>Protected Place</b>	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where people assemble
<b>Public Place</b>	A place frequented by the public, including roads (does not include private property)
<b>Qualified Person</b>	A requirement for the loader, contractor or person applying the product to hold a qualification such as a GROWSAFE Certificate, Unit Standard 21563, etc.
<b>Record Keeping</b>	Includes a spray diary or other record of application
<b>REI</b>	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.
<b>Segregation</b>	Certain classes of substances must not be in contact with, and must be stored separately from, certain other classes as specified in HSWHS Regs
<b>Separation Distances</b>	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
<b>Signage</b>	Positioned at entrances to commercial premises providing information on the hazardous substances present
<b>Soil Adsorption Coefficient (Kd)</b>	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
<b>Soil Organic Carbon-Water Partitioning Coefficient (Koc)</b>	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.
<b>STEL</b>	The higher the value the less mobile the chemical is in soil
<b>Tolerable Exposure Limit</b>	Short term exposure level – 15 minute time weighted average
<b>Tracking</b>	Maximum concentration limit of a substance above which persons must not be exposed
<b>TWA</b>	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use of the product
<b>Workplace Exposure Standard</b>	Time weighted average calculated over an 8 hour working day
	An occupational health standard limiting concentrations of specified substances to which persons are

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exposed

**Workplace Only** A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

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 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.