

## 1: Identification of the Substance and Supplier

Product Name RELEASE KT

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 Addresswww.orionagriscience.co.nzEmail Addressorders@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

# Hazard Classes:

Eye Irritation (Cat. 2)

Specific target organ toxicity (repeated exposure) (Cat. 2) Hazardous to the aquatic environment acute (Cat. 1) Hazardous to the aquatic environment chronic (Cat. 1) Hazardous to soil organisms

#### **Precautionary Statements:**

Prevention

#### Warning

#### **Hazard Statements:**

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

H421 Very 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

P103 Read carefully and follow all instructions

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

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.

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

 ${\sf P337\!+\!P313} \ \ \text{If eye irritation persists: Get medical advice/attention}$ 

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).

Keep out of reach of children

Response

Storage

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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
Ingredient CAS No Content (% w/v)
Terbuthylazine 5915-41-3 43
Hexazinone 51235-04-2 8
Glycerol 56-81-5 <10
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

**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:IrritationEye Contact:Irritation

**Inhalation:** No data available

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Fire/Explosion Hazard Non-Flammable

HAZCHEM Code 3Z ERP Guide No 47

**Extinguishing Media** Water spray, foam, dry chemical or C02. 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 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.

Environmental Precautions Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

**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

**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.

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REI Until spray has dried

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit None established

Workplace Exposure Standards Glycerol (mist) 10 mg/m3 TWA (8 hr)

**Engineering Controls**Select spray application equipment to minimize exposure to operator and bystanders

**Personal Protection:** 

**Vapour Pressure** 

**Eye** Safety glasses/goggles when mixing or applying

**Skin** Cotton overalls snugly fitting at the neck, wrist and ankle, boots and gloves (barrier multilayer, nitrile,

neoprene) when mixing and applying

**Respiratory**Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter)

is required.

Does not apply

Clean protective equipment after use

# 9: Physical and Chemical Properties

AppearanceWhite LiquidOdourSlight non-specificOdour ThresholdDoes not apply

pH 4 - 10
Melting Point/Freezing Point < 0°C
Boiling Point > 100°C
Flash Point Does not apply
Flammability Not flammable

Upper/Lower Flammability Limits Not applicable Does not apply

**Vapour Density** Does not apply **Relative Density** 1.1 g/mL (approx.) 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 ReactionsNone ExpectedIncompatibilityNone KnownHazardous Decomposition ProductsNone 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 ToxicityLD50 > 2000 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/L

Skin corrosion/irritation Information not available

Serious eye damage/Eye irritation Irritant

Respiratory or skin sensitisation Information not available

Germ cell mutagenicity Information not available

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Carcinogenicity Information not available
Reproductive Toxicity Information not available
Specific Organ Toxicity – Single Information not available

Specific Organ Toxicity – Repeated

exposure

exposure

Aspiration hazard

Oral exposure to hexazinone at high doses is damaging to the blood and hematopoietic system

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

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The following information is presented in respect of the active ingredient:				
Ecotoxicity	Terbuthylazine			
	Acute Oral LD50 (Rat) >1000 mg/kg			
	• LC50 (96 hr) (Rainbow trout) 2.2 mg/l			
	• LC50 (96 hr) (Crustacean) 0.1 mg/l			
	• EC50 (5 d) (Algae) 3.2 μg/l			
	Non toxic to bees.			
	Hexazinone			
	Acute Oral LD50 (Guinea pig) .860 mg/kg			
	• LC50 (96 hr) (Rainbow trout) >320 mg/l			
	• LC50 (96 hr) (Crustacean) 78 mg/l			
	• EC50 (72 hr) (Algae) 7 μg/l			
	Non-toxic to bees			
Persistence/degradability	Biodegradable. DT50 (soil) 72 days (typical) (Terbuthylazine)			
	Biodegradable. DT50 (soil) 105 days (typical) (Hexazinone)			
<b>Bioaccumulative Potential</b>	Octanol-water partition coefficient	LogP = 3.4 (high) (Terbuthylazine)		
		LogP = 1.17 (low) (Hexazinone)		
Soil Mobility	Soil organic carbon water partitioning coefficient	Koc = 151 (mobile) (terbuthylazine)		
		Koc = 54 (mobile) (Hexazinone)		
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	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTHYLAZINE 43% HEXAZINONE 8%)
Class	9
Subsidiary Class	None
Packing Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	1000 litres

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**Passenger Service Vehicle** 

No restriction

15 Regulatory Information		
EPA Approval No	HSR000492	
ACVM Registration No	Not Applicable	
Qualified Person	Required	
Certified Handler	Not required	
Workplace Only	No	
Tracking	Not required	
Record Keeping	Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)	
Site Requirements under EPA Notice	A hazardous substance location compliance certificate is not required	
and HSWHS Regs:	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 100 litres	
	<ul> <li>An emergency response plan is required for more than 100 litres</li> </ul>	
	<ul> <li>Secondary containment is required for more than 100 litres</li> </ul>	
	<ul> <li>Segregation from incompatible substances is not required</li> </ul>	

Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans		
16: Other Information			
SDS review date	12 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		
<b>Environmental Exposure Limit</b>	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		
<b>Hazardous Substance Location</b>	For locations storing hazard substances of certain classes above threshold quantities		
Compliance Certificate			

A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009 **Hazardous Area 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% or 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 Page: 5 of 6



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

The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the

Partitioning Coefficient (Koc) soil. The higher the value the less mobile the chemical is in soil

STEL Short term exposure level – 15 minute time weighted average

Tolerable Exposure Limit

Maximum concentration limit of a substance above which persons must not be exposed

**Tracking**For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

Workplace Exposure Standard An occupational health standard limiting concentrations of specified substances to which persons are

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.

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