## SAFETY DATA SHEET RELEASE KT



#### 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 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 May 2023

#### 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 Very toxic to some plant species (selective herbicide)

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

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 P332+P317 If skin irritation occurs get medical advice

P301+P317 IF SWALLOWED: Get medical help

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+P317 If eye irritation persists: Get medical help

P319 Get medical help 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).

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3: Composition/Information on Ingredients

Ingredient CAS No Content (% w/v)

Terbuthylazine5915-41-343Hexazinone51235-04-28Glycerol56-81-5<10</td>Other ingredientsProprietaryRemainder

#### 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: Irritation

Eye Contact: Irritation

Inhalation: No data available

#### 5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable

HAZCHEM Code 3Z 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 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.

REI Until spray has dried

#### 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit None establish

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:

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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.

No data available

Clean protective equipment after use

#### 9: Physical and Chemical Properties

AppearanceWhite LiquidOdourSlight non-specificOdour ThresholdNo data available

4 - 10 рΗ < 0°C Melting Point/Freezing Point **Boiling Point** > 100°C Not applicable Flash Point Flammability Not flammable Upper/Lower Flammability Limits Not applicable No data available Vapour Pressure Vapour Density No data available Relative Density 1.1 g/mL (approx.) Solubility in Water Dispersible Partition Coefficient: n-octanol/water See section 12 Auto ignition Temperature Not applicable **Decomposition Temperature** No data available

#### 10: Stability and Reactivity

Kinematic Viscosity

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 Irritant/Corrosive

Eye Irritant/Corrosive

Irritant
Sensitisation Effects

None

Mutagenic Effects

None

Carcinogenic Effects

None

Reproductive Effects

None

Specific Organ Toxicity

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

#### 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**

#### 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

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Persistence/degradability Biodegradable. DT50 (soil) 72 days (typical) (Terbuthylazine)

Biodegradable. DT50 (soil) 105 days (typical) (Hexazinone)

Bioaccumulative Potential 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

Subsidiary Class None
Packing Group III

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 litres

Passenger Service Vehicle No restriction

#### 15 Regulatory Information

EPA Approval No
ACVM Registration No
Not Applicable
Qualified Person
Required
Certified Handler
Not required

Workplace Only No

Tracking Not required

Record Keeping Not

Site Requirements under EPA Notice

and HSWHS Regs:

Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)

- 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 100 litres
- An emergency response plan is required for more than 100 litres
- Secondary containment is required for more than 100 litres
- Segregation from incompatible substances is not required

Application Rate Maximum application rate 23.3 L/ha

Additional Requirements Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

#### 16: Other Information

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

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**ERP** Guide Dangerous Goods - Initial Emergency Response Guide SNZ HB 76:2008 **GHS** Globally harmonized system of classification and labelling of chemicals

For locations storing hazard substances of certain classes above threshold quantities

Hazardous Substance Location 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% or organisms

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the

Advance notice given to neighbours and other affected parties, of details of proposed application, and other Notification

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

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

Short term exposure level – 15 minute time weighted average

STEL

Soil Organic Carbon-Water Partitioning

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

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.