

### 1: Identification of the Substance and Supplier

Product Name HORTISEAL

Recommended UseFungicidal Pruning PasteSuppliers DetailsOrion AgriScience Ltd

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**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 September 2021

### 2: Hazards Identification

Hazard Pictograms None

Signal Words Warning

Hazard Classes: Hazard Statements:

Precautionary Statements:

Aquatic Chronic 3

Prevention 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

H412 Harmful to aquatic life with long lasting effects

P280 Wear protective gloves

P270 Do not eat, drink or smoke when using this product

P264 Wash hands thoroughly after handling

Read label before use. Avoid contact with eyes and skin. When 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 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 P102 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 or commercial waste stream.

### 3: Composition/Information on Ingredients

	3. Composition, information on ingredients							
Ingredient		CAS No	Content (% w/v)					
	Tebuconazole	107534-96-3	1					
	Propane-1,2-diol	57-55-6	25 - 35					
	2-Butoxyethanol	111-76-2	25 - 35					
	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 if feeling unwell

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**Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation or rash 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 symptomaticallyNational Poison Centre0800 POISON (0800 764 766) (24 hours)

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

Ingestion:No data availableSkin Contact:No data availableEye Contact:No data availableInhalation:No data available

#### 5: Fire-Fighting Measures

Fire/Explosion Hazard

HAZCHEM Code

ERP Guide No

Non-flammable.

Not applicable

Not applicable

**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 treating.

**REI** None specified

### 8: Exposure Controls / Personal Protection

**Tolerable Exposure Limit** None established

Workplace Exposure Standards Propane-1,2-diol 150 ppm / 474 mg/m3 (8hr TWA) as vapour and particulates

Propane-1,2-diol 10 mg/m3 (8hr TWA) as particulates 2-Butoxyethanol 25 ppm / 121 mg/m3 (8hr TWA)

**Engineering Controls**Use in a well ventilated area. Select application method and equipment to minimize exposure to operator

and bystanders

Personal Protection:

EyeNot requiredSkinWater proof glovesRespiratoryNot required

Clean protective equipment after use

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### 9: Physical and Chemical Properties

AppearanceBlue LiquidOdourNon specificOdour ThresholdNo data available

**pH** 5.5 – 7.5

Melting Point/Freezing Point No data available **Boiling Point** No data available **Flash Point** No data available No data available Flammability No data available **Upper/Lower Flammability Limits Vapour Pressure** No data available No data available Vapour Density 1.09 g/ml (approx.) **Relative Density** 

Solubility in Water
Partition Coefficient: n-octanol/water
See section 12
Auto ignition Temperature
No data available
Kinematic Viscosity
Niscible
See section 12
Not applicable
No data available

#### 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 Toxicity

Acute Dermal Toxicity

LD50 > 5000 mg/kg

LD50 > 5000 mg/kg

LD50 > 5000 mg/kg

LD50 > 5 mg/L

Skin Irritant/Corrosive

Eye Irritant/Corrosive

None

Sensitisation Effects

None

Mutagenic Effects

None

Carcinogenic Effects

None

Reproductive Effects

None

Specific Organ Toxicity

None

#### **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:

• Acute Oral LD50 (Bobwhite quail) 1988 mg/kg

• LC50 (96 hr) (Rainbow trout) 4.4 mg/l

LC50 (48 hr) (Daphnia) 4.2 mg/l

• Algae EC50 (96 hr) 4.01 mg/l

• Non toxic to bees

Persistence/degradability Biodegradable. DT50 (soil) 63 days (typical)

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Bioaccumulative Potential

Octanol-water partition coefficient

LogP = 3.7 (high)

Soil Mobility

Environmental Exposure Limit:

Soil organic carbon water partitioning coefficient

Not available

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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 the container via AgRecovery after cleaning. Do not burn. Do not use packaging for any other

purpose.

None established

### 14: Transport Information

**Dangerous Goods** 

**UN Number** Not Applicable – Not dangerous for transport

**Proper Shipping Name** Not Applicable – Not dangerous for transport

Class Not Applicable – Not dangerous for transport

Subsidiary Class Not Applicable – Not dangerous for transport

Packing Group Not Applicable – Not dangerous for transport

**Additional Information** Not Applicable – Not dangerous for transport

MTQ (Non-Commercial) Not Applicable – Not dangerous for transport

Passenger Service Vehicle No restriction

#### 15 Regulatory Information

EPA Approval No HSR000519

ACVM Registration No P9911

Qualified PersonNot requiredCertified HandlerNot required

Workplace Only No

Tracking Not required

Record Keeping Not required

Site Requirements under EPA Notice

and HSWHS Regs:

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 1000 L

An emergency response plan is required for more than 1000 L

Secondary containment is required for more than 1000 L

Segregation from incompatible substances is not required

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

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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

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

**Hazardous Substance Location** For locations storing hazard substances of certain classes above threshold quantities

**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 user

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

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 soil.

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

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.