

### 1: Identification of the Substance and Supplier

Product Name METAMITRON

Recommended Use Herbicide

**Suppliers Details** Orion AgriScience Ltd

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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 June 2020

### 2: Hazards Identification

**Hazard Pictograms** 



#### **Signal Words**

### **Hazard Classes:**

6.1B Acute Toxicity (Inhalation Cat. 2)

6.1D Acute Toxicity (Oral Cat. 4)

6.1D Acute Toxicity (Dermal Cat. 4)

9.1A Aquatic Ecotoxicity (Cat. 1)

9.2A Soil Ecotoxicity

9.3C Terrestrial Vertebrate Ecotoxicity

#### **Precautionary Statements:**

Prevention

#### Danger

#### **Hazard Statements:**

H330 Fatal if inhaled

H302 Harmful if swallowed

H312 Harmful if in contact with skin

H410 Very toxic to aquatic life with long lasting effects Very toxic to some plant species (selective herbicide)

Harmful to terrestrial vertebrates

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P271 Use only outdoors or in a well ventilated area

P284 Wear respiratory protection

P316 Get emergency medical help immediately

P320 Specific treatment is urgent (see section 4l)

P264 Wash hands thoroughly after handling

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

P280 Wear protective gloves/protective clothing

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.

P304+P340 IF INHALED: Move person to fresh air and keep comfortable for breathing

P301+P317 IF SWALLOWED: Get medical help

P330 Rinse mouth

P302+P352 IF ON SKIN: Wash with plenty of water

P317 Get medical help

P321 Specific treatment (see section 4)

P362+P364 Take off contaminated clothing and wash it before reuse

Response

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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 P403+P233 Store in a well ventilated place. Keep container tightly closed

P405 Store locked up

Keep out of reach of children.

Disposal P501 Dispose of contents/containers in accordance with local regulations

### 3: Composition/ Information on Ingredients

Ingredient CAS No Content (% w/w)

Metamitron 41394-05-2 >95

### 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:** Rinse mouth. Seek medical advice if feeling unwell

Skin Contact: Wash with plenty of soap and water. Seek medical advice if irritation occurs or if feeling unwell.

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

immediately.

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:No data availableSkin Contact:May cause mild irritationEye Contact:May cause mild irritation

**Inhalation:** No data available

#### 5: Fire-Fighting Measures

Fire/Explosion Hazard Non-flammable. As with many dusts, an explosive air/dust mixture may be formed if rough handling

liberates dust from the granules in enclosed or poorly ventilated areas.

HAZCHEM Code 2Z 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**Wear protective clothing as described in section 8. Do not inhale dust. Exclude non-essential people from

the area.

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

Clean Up Moisten to prevent dusting and carefully sweep up. 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 locked and secure area.

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**Handling and Use:** Keep out of reach of children. Refer to Prevention statements in section 2 above.

**REI** Not applicable

### 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

Workplace Exposure Standards

None established

**Engineering Controls**Select processing methods and equipment to minimize exposure to operators

Personal Protection:

**Eye** Safety glasses/goggles

**Skin** Cotton overalls snugly fitting at the neck, wrist and ankle, boots and gloves

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

required.

Clean protective equipment after use

### 9: Physical and Chemical Properties

**Appearance** Off White Granule

**Odour** Slight

Odour ThresholdNo data availablepHNot applicable

Melting Point/Freezing PointNo data availableBoiling PointNo data availableFlash PointNot applicableFlammabilityNot flammable

Upper/Lower Flammability Limits Not available. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates

dust in enclosed or poorly ventilated areas

Vapour PressureNo data availableVapour DensityNo data availableRelative DensityNo data availableSolubility in WaterInsoluble

Partition Coefficient: n-octanol/water

Auto ignition Temperature

Decomposition Temperature

No data available

No data available

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 ToxicityLD50 > 300 mg/kgAcute Dermal ToxicityLD50 > 1000 mg/kgAcute Inhalation ToxicityLD50 > 0.05 mg/L

 Skin Irritant/Corrosive
 None

 Eye Irritant/Corrosive
 None

 Sensitisation Effects
 None

 Mutagenic Effects
 None

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Carcinogenic EffectsNoneReproductive EffectsNoneSpecific Organ ToxicityNone

### 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	l in respect o	f the active in	aredient.
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• Acute Oral LD50 (Bobwhite quail) >2000 mg/kg

• LC50 (96 hr) (Rainbow trout) 1.7 mg/l

EC50 (48 hr) (Daphnia) 0.41 mg/l

LC50 (96 hr) (Algae) 0.09 mg/l

• Non - toxic to bees

Persistence/degradability Biodegradable. DT50 (soil) 30 days (typical)

**Bioaccumulative Potential** Octanol-water partition coefficient LogP = 0.85 (low)

**Soil Mobility** Soil organic carbon water partitioning coefficient Koc = 77.7 (moderate mobile)

Environmental Exposure Limit: None established

### **13: Disposal Considerations**

**Product**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. Do not burn. Do not use packaging for any other purpose.

### **14: Transport Information**

**Dangerous Goods** 

UN Number 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METAMITRON)

Class 9

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 Kg

Passenger Service Vehicle Maximum quantity 0.1 Kg

### 15 Regulatory Information

EPA Approval No

ACVM Registration No

Qualified Person

Certified Handler

Workplace Only

Tracking

Record Keeping

Site Requirements under EPA Notice

HSR003442

Not applicable

HSR003442

Required

Required

Required

Not applicable

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- A hazardous substance location compliance certificate is required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is applicable
- Fire extinguishers are not required
- Signage is required for more than 100 Kg

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and HSWHS Regs:



• An emergency response plan is required for more than 100 Kg

• Secondary containment is not required

• Segregation from incompatible substances (classes 1 and 5) is 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
	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
<b>Compliance Certificate</b>	
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.

other classes as specified in HSWHS Regs

Certain classes of substances must not be in contact with, and must be stored separately from, certain

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Segregation



**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

resent

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

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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