

## 1: Identification of the Substance and Supplier

Product Name MIGHTY 700 SC

Recommended Use Herbicide

**Suppliers Details** Orion AgriScience Ltd

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 Email Address
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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)

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## 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 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

IngredientCAS NoContent (% w/v)Metamitron (active ingredient)41394-05-270

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:** 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

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.

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### 7: Handling and Storage

**Storage:** Keep out of reach of children. Store in the original tightly closed container in a locked and secure area.

Handling and Use: Refer to Prevention statements in section 2 above. Exclude people and animals from the application area,

both during application and for the duration of the REI.

REI Until spray has dried

### 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

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

Personal Protection

Eye Safety glasses/goggles when mixing or applying

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

**Respiratory** 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

Appearance Off White Opaque Liquid

**Odour** Slight

Odour Threshold No data available

pH 5.0 - 8.0
Melting Point/Freezing Point <0°C
Boiling Point >100°C
Flock Point

Flash Point

Flammability

Upper/Lower Flammability Limits

Vapour Pressure

Vapour Density

Relative Density

Not Applicable

Not Applicable

Not Applicable

Not Applicable

No data available

No data available

1.20 g/mL (approx.)

Solubility in WaterDispersiblePartition Coefficient: n-octanol/waterSee section 12Auto ignition TemperatureNot ApplicableDecomposition TemperatureNo data availableKinematic ViscosityNo 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

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Sensitisation Effects

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:

**Ecotoxicity** 

- 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) (Metamitron)

Soil Mobility

Soil organic carbon water partitioning coefficient

Koc = 77.7 (moderate mobile) (Metamitron)

**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. (METAMITRON 70%)

Class

9

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 litres

Passenger Service Vehicle Maximum quantity 0.1 litre.

#### 15 Regulatory Information

EPA Approval No

ACVM Registration No

P9372

Qualified Person

Certified Handler

Workplace Only

Tracking

Record Keeping

HSR100753

Required

Required

Required

Required

Required

Site Requirements under EPA Notice

and HSWHS Regs:

- 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

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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 (classes 1 and 5) is required

Application Rates Maximum application rate 6L/ha. Maximum application frequency 3 times per year

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

### 16: Other Information

GI			

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

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

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

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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