

1: Identification of the Substance and Supplier

Product Name MUSTANG
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)

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2: Hazards Identification

Hazard Pictograms



Signal Words

Hazard Classes:

6.3B Skin Irritation (Cat. 3)6.4A Eye Irritation (Cat. 2)9.1A Aquatic Ecotoxicity (Cat. 1)

9.2A Soil Ecotoxicity

Precautionary Statements:

Prevention

Response

Storage

Warning

Hazard Statements:

H316 Causes mild skin irritation H319 Causes serious eye irritation

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

P264 Wash hands thoroughly after handling P280 Wear eye protection / face protection

Keep out of reach of children. Read label before use. Avoid contact with eyes and skin. Do not breathe in the dust or 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.

P332+P317 If skin irritation occurs get medical advice

 $P305+P351+P338 \ IF\ IN\ EYES: Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact\ lenses,\ if\ present\ and\ easy\ to\ do\ so.\ Continue\ rinsing$

P337+P317 If eye irritation persists: Get medical help

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.

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

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Ingredient CAS No Content (% w/w)

Metsulfuron-methyl (active ingredient) 74223-64-6 6

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

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: No data available

Skin Contact: Irritation
Eye Contact: Irritation

Inhalation: May cause irritation

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 InstructionsDuring 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 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 established

Workplace Exposure Standards

None established

Engineering ControlsSelect spray application equipment to minimize exposure to operator and bystanders

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Personal Protection

Eye Safety glasses/goggles when mixing or applying

SkinCotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and

applying

RespiratoryNot required where dust or 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 Granule Odour Slightly pungent **Odour Threshold** No data available Ηα 4 - 7 (1% dispersion) Melting Point/Freezing Point No data available No data available **Boiling Point** Flash Point Not applicable **Flammability** Not 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 Density0.96 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

Kinematic Viscosity 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 > 5000 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/L

Skin Irritant/Corrosive Irritation
Eye Irritant/Corrosive Irritation
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

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The following information is presented in respect of the active ingredient:

Ecotoxicity • Acute Oral LD50 (Mallard duck) >5000 mg/kg

• LC50 (96 hr) (Rainbow trout) >150 mg/l

• LC50 (48 hr) (Daphnia) >150 mg/l

LC50 (96 hr) (Green Algae) 100 mg/l

Very toxic to some plant species (selective herbicide)

Non - toxic to bees.

Persistence/degradability Biodegradable DT50 (soil) 10 days (typical)

Bioaccumulative PotentialOctanol-water partition coefficient
LogP = -1.87 (low) **Soil Mobility**Soil organic carbon water partitioning coefficient
No data available

Environmental Exposure Limit: EELwater= 0.0084 μg/L

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 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METSULFURON-METHYL 60%)

Class 9
Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 Kg

Passenger Service Vehicle No restriction

15 Regulatory Information

EPA Approval No

ACVM Registration No

P5991

Qualified Person

Certified Handler

Not required

Workplace Only No

Tracking Not required

Record KeepingNot required (unless > 3 Kg applied within 24 hours, and which is likely to leave the application area)

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 100 Kg

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

• Secondary containment is not required

Segregation from incompatible substances is not required

RestrictionsApplication into water is subject to requirements concerning maximum application rates, frequencies,

intervals, permissions, signage, notification, incident reporting, annual reporting, surface area treatment

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proportions, etc. Refer to Orion or EPA for more information

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
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

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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-WaterThe 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

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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