

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)
Date of Issue/Revision	March 2025

2: Hazards Identification

Hazard Pictograms	
Signal Words	Warning
Hazard Classes:	Hazard Statements:
Eye Irritation (Cat. 2)	H319 Causes serious eye irritation
Hazardous to the Aquatic Environment - Acute (Cat. 1)	H400 Very toxic to aquatic life
Hazardous to the Aquatic Environment - Chronic (Cat. 1)	H410 Very toxic to aquatic life with long lasting effects
Hazardous to soil organisms	H421 Very toxic to the soil environment
Precautionary Statements:	
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
	P264 Wash hands thoroughly after handling
	P273 Avoid release to the environment
	P280 Wear eye protection / face protection
	Read label before use. Do not use until all safety precautions have been read and understood. 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.
P	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+P313 If eye irritation persists: Get medical advice/attention
	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).
Response	
	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).
Storage	
Disposal	

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/w)
Metsulfuron-methyl (active ingredient)	74223-64-6	60
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:	Mild 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
ER Guide No	47
Extinguishing Media	Dry chemical, CO ₂ , water spray or foam. 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 secure area.
Handling and Use:	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	TEL drinking water = 0.04 mg/L
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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	Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and applying
Respiratory	Not 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	Does not apply
pH	4 - 7 (1% dispersion)
Melting Point/Freezing Point	Does not apply
Boiling Point	Does not apply
Flash Point	Does not apply
Flammability	Not flammable
Upper/Lower Flammability Limits	Does not apply. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates dust in enclosed or poorly ventilated areas
Vapour Pressure	Does not apply
Vapour Density	Does not apply
Relative Density	0.96 g/mL (approx)
Solubility in Water	Dispersible
Partition Coefficient: n-octanol/water	See section 12
Auto ignition Temperature	Does not apply
Decomposition Temperature	Does not apply
Kinematic Viscosity	Does not apply
Particle characteristics	Does not apply

10: Stability and Reactivity

Stability	Stable under normal conditions
Hazardous Reactions	None Expected
Incompatibility	None Known
Hazardous Decomposition Products	None 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	LD50 > 5000 mg/kg
Acute Dermal Toxicity	LD50 > 5000 mg/kg
Acute Inhalation Toxicity	LD50 > 5 mg/L
Skin corrosion/irritation	Information not available
Serious eye damage/Eye irritation	Irritation
Respiratory or skin sensitisation	Information not available
Germ cell mutagenicity	Information not available
Carcinogenicity	Information not available
Reproductive Toxicity	Information not available
Specific Organ Toxicity – Single	Information not available

exposure	
Specific Organ Toxicity – Repeated exposure	Information not available
Aspiration hazard	Information not available

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	<ul style="list-style-type: none"> Acute Oral LD50 (Mallard duck) >5000 mg/kg LC50 (96 hr) (Rainbow trout) >100 mg/l LC50 (48 hr) (Daphnia) >100 mg/l EC50 (7 day) (Algae) 0.62 µg/l Very toxic to some plant species (selective herbicide) Non - toxic to bees.
Persistence/degradability	Soil Degradation DT50 (soil) 10 days (typical)
Bioaccumulative Potential	Octanol-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	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	1000 Kg
Passenger Service Vehicle	No restriction

15 Regulatory Information

EPA Approval No	HSR000242
ACVM Registration No	P5991
Qualified Person	Required
Certified Handler	Not required
Workplace Only	No
Tracking	Not required
Record Keeping	Not 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:	<ul style="list-style-type: none"> 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 required for more than 100 Kg
- Segregation from incompatible substances is not required

Restrictions

Application into water is subject to requirements concerning maximum application rates, frequencies, intervals, permissions, signage, notification, incident reporting, annual reporting, surface area treatment proportions, etc. Refer to Orion or EPA for more information

Additional Requirements

Refer to NZS 8409:2021 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information

SDS review date

7 March 2025

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 (Acute Toxicity Category 1 or 2 – Oral, Dermal or Inhalation)

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

ER Guide

Australian and New Zealand Emergency Response Guide Book

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% of 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.

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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 Partitioning Coefficient (Koc)	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the 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.