

1: Identification of the Substance and Supplier

Product Name AMMO MAX

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

(03) 928 2386 (office hours), 0800 674 6627 (free phone) Telephone Number

Emergency Telephone 0800 CHEMCALL (0800 243 622) (24 hours) **National Poison Centre** 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision May 2020

2: Hazards Identification

Hazard Pictograms







Signal Words

Hazard Classes:

6.1D Acute Toxicity (Oral Cat. 4)

6.9A Target Organ Systemic Toxicity (Oral Cat. 1)

8.3A Serious Eye Damage/Eye Irritation (Cat. 1)

9.1B Aquatic Ecotoxicity (Cat. 2)

9.2A Soil Ecotoxicity

9.3B Terrestrial Vertebrate Ecotoxicity

Precautionary Statements:

Prevention

Danger

Hazard Statements:

H302 Harmful if swallowed

H372 Causes damage to organs through prolonged or repeated exposure

H318 Causes serious eye damage

H401 Toxic to aquatic life with long lasting effects

Very toxic to some plant species (selective herbicide)

Toxic to terrestrial vertebrates

P264 Wash hands thoroughly after handling

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

P260 Do not breathe spray

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 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.

P301+P317 IF SWALLOWED: Get medical help

P330 Rinse mouth

P319 Get medical help if you feel unwell

P305+354+338 IF IN EYES: Immediately rinse with water for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing

P317 Get medical help

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.

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Response

Storage



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)2,4-D dimethylammonium (active ingredient)2008-39-110 - 302,4-D diethanolamine (active ingredient)5742-19-8>60Other ingredientsProprietaryRemainder

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. Call the Poisons Centre on 0800 POISON (0800 764 766), or a Doctor immediately

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.

Call the Poisons Centre on 0800 POISON (0800 764 766), or a Doctor immediately.

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: Nausea, vomiting, abdominal pain, weakness, unconsciousness

Skin Contact: Irritation

Eye Contact: Irritation and eye damage

Inhalation: Headache, nausea, cough, sore throat

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 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 PrecautionsCaution: 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 UpAbsorb 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: 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

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8: Exposure Controls / Personal Protection

Tolerable Exposure Limit None established

Workplace Exposure Standards 2,4-D as acid 10 mg/m3 (8hr TWA)

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

Eye Safety glasses/goggles when mixing or applying

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

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

is required.

Clean protective equipment after use

9: Physical and Chemical Properties

Clear Amber Liquid **Appearance**

Odour Phenol like

Odour Threshold No data available

6.0 - 10.0pН

Melting Point/Freezing Point No data available

>100°C **Boiling Point**

Flash Point Not Applicable Flammability Not Applicable **Upper/Lower Flammability Limits** Not Applicable **Vapour Pressure** No data available No data available Vapour Density **Relative Density** 1.28 g/mL (approx.)

Solubility in Water Soluble

Partition Coefficient: n-octanol/water See section 12 **Auto ignition Temperature** Not Applicable **Decomposition Temperature** No data available

10: Stability and Reactivity

Kinematic Viscosity

Stability Stable under normal conditions

No data available

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 > 300 mg/kg**Acute Dermal Toxicity** LD50 > 5000 mg/kg **Acute Inhalation Toxicity** LD50 > 5 mg/L

Skin Irritant/Corrosive None

Eye Irritant/Corrosive Serious Eye Damage/Eye Irritation

Sensitisation Effects none **Mutagenic Effects** None **Carcinogenic Effects** None **Reproductive Effects**

Specific Organ Toxicity Oral and dermal exposure to 2,4-D at high doses is damaging to the liver

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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 (Pheasant) 472 mg/kg
- LC50 (96 hr) (Rainbow trout) >100 mg/l
- LC50 (21 d) (Daphnia) 235 mg/l
- EC50 (5 d) (Algae) 33.2 mg/l
- Non toxic to bees

Persistence/degradability

Biodegradable. DT50 (soil) 10 days (typical)

Bioaccumulative Potential

Octanol-water partition coefficient

LogP = -0.83 (low)

Soil Mobility

Soil organic carbon water partitioning coefficient

Koc = 39 (mobile)

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. (2,4-D AMINE 79%)

Class

9

Subsidiary Class

None

Packing Group

III

Additional Information

MARINE POLLUTANT

MTQ (Non-Commercial)

1000 litres

Passenger Service Vehicle

No restriction

15 Regulatory Information

EPA Approval No

HSR007878

ACVM Registration No

P7782

Qualified Person

Required

Certified Handler

Not required

Workplace Only

No

December 1

Tracking

Not required

Record Keeping
Site Requirements under EPA Notice

• A hazardous substance location compliance certificate is not required

and HSWHS Regs:

- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not applicable

Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)

- Fire extinguishers are not required
- Signage is required for more than 100 litres
- An emergency response plan is required for more than 1000 litres
- Secondary containment is required for more than 1000 litres
- Segregation from incompatible substances is not required

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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
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
J J	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

present

Positioned at entrances to commercial premises providing information on the hazardous substances

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Signage



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 not be exposed

Tracking For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWATime 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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