


SAFETY DATA SHEET

DEAL 360

1: Identification of the Substance and Supplier

Product Name	DEAL 360
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	Feb 2025

2: Hazards Identification

Hazard Pictograms	
Signal Words	Warning
Hazard Classes:	Hazard Statements:
Hazardous to the Aquatic Environment – Chronic (Cat. 2)	H411 Toxic to aquatic life with long lasting effects
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 P273 Avoid release to the environment Read label before use. Avoid contact with eyes and skin. Do not breathe in the spray mist. Wash hands thoroughly after use. 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.
Response	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	Store in the original tightly closed container in a secure area
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

Ingredient	CAS No	Content (% w/v)
Glyphosate isopropylamine (active ingredient)	38641-94-0	49
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

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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:	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:	Burning sensation in throat and chest, nausea, vomiting, diarrhoea
Skin Contact:	Irritation
Eye Contact:	Irritation
Inhalation:	Irritation

5: Fire-Fighting Measures

Fire/Explosion Hazard	Non-Flammable
HAZCHEM Code	3Z
ERP Guide No	47
Extinguishing Media	Water spray, foam, dry chemical or CO2. 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.

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

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 (or full face respirator incorporating visor) 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 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	Clear Amber liquid
Odour	Slight
Odour Threshold	Does not apply
pH	4 - 7
Melting Point/Freezing Point	<0°C
Boiling Point	>100°C
Flash Point	Does not apply
Flammability	Does not apply
Upper/Lower Flammability Limits	Does not apply
Vapour Pressure	Does not apply
Vapour Density	Does not apply
Relative Density	1.10 g/mL (approx.)
Solubility in Water	Soluble
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	See below
Incompatibility	This product should only be mixed, contained in or sprayed by, equipment made from stainless steel, fibreglass, plastic, aluminum, brass or copper. A highly flammable gas (hydrogen) may be formed from the contact of this product with galvanised or unlined steel. All spray equipment, including pumps, spray tanks, lines, nozzles, and landing gear (aircraft) should be thoroughly washed with water after each day of spraying
Hazardous Decomposition Products	See above

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 is not available
Serious eye damage/Eye irritation	Information is not available
Respiratory or skin sensitisation	Information is not available
Germ cell mutagenicity	Information is not available
Carcinogenicity	Information is not available
Reproductive Toxicity	Information is not available
Specific Organ Toxicity – Single exposure	Information is not available
Specific Organ Toxicity – Repeated exposure	Information is not available
Aspiration hazard	Information is 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

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

Ecotoxicity	<ul style="list-style-type: none">Acute Oral LD50 (Rat) >2000 mg/kgLC50 (96 hr) (Rainbow trout) 38 mg/lLC50 (48 hr) (Daphnia) 40 mg/lEC50 (72 hr) (Algae) 19 mg/lNon toxic to bees	
Persistence/degradability	Biodegradable. DT50 (soil) 15 days (typical)	
Bioaccumulative Potential	Octanol-water partition coefficient	LogP = -3.2 (low)
Soil Mobility	Soil organic carbon water partitioning coefficient	Koc = 1424 (slightly 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. (GLYPHOSATE ISOPROPYLAMINE 49%)
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	HSR007694
ACVM Registration No	P9824
Qualified Person	Only required when used as an aquatic herbicide for application onto or into water
Certified Handler	Not required
Workplace Only	No
Tracking	Not required
Record Keeping	Not required
Site Requirements under EPA Notice and HSWHS Regs:	<ul style="list-style-type: none">A hazardous substance location compliance certificate is not requiredA hazardous area is not requiredSeparation distances for class 3 and class 6 substances to protected places and public places is not applicableFire extinguishers are not requiredSignage is required for more than 1000 litresAn emergency response plan is required for more than 1000 litresSecondary containment is required for more than 1000 litresSegregation from incompatible substances is not applicable
Additional Requirements	Refer to NZS 8409:2021 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information

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SDS review date	20 February 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
HSHPC Notice	Hazardous Substances (Hazardous Property Controls) Notice 2017
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.
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 and the HSHPC Notice
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 of certain classes above threshold quantities
Signage	Positioned at entrances to commercial premises providing information on the hazardous substances

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Soil Adsorption Coefficient (Kd)

present

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. 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.