

1: Identification of the Substance and Supplier

Product Name DEAL 510RF
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

www.orionagriscience.co.nz 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 May 2023

2: Hazards Identification

Hazard Pictograms

Web Address

Email Address



Signal Words

Hazard Classes:

Skin Irritation (Cat. 2)

Hazardous to the aquatic environment chronic (Cat. 2)

Precautionary Statements:

Prevention

Warning

Hazard Statements:

Causes skin irritation

Toxic to aquatic organisms with long lasting effects

Keep out of reach of children. 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. This product should only be mixed, contained in or sprayed by, equipment made from stainless steel, fibreglass, plastic, aluminium, 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.

Response

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).

3: Composition/ Information on Ingredients

IngredientCAS NoContent (% w/v)Glyphosate isopropylamine (active ingredient)38641-94-069

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.

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

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Workplace Facilities:Hand wash facility. Eye wash facilityAdvice 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: 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 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.

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

Workplace Exposure Standards

None established

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.

No data available

Clean protective equipment after use

9: Physical and Chemical Properties

AppearanceClear green liquidOdourFaint amine or odourlessOdour ThresholdNo data availablepH4.5 – 5.5Melting Point/Freezing PointNo data available

Boiling Point >100°C
Flash Point Not Applicable
Flammability Not Applicable
Upper/Lower Flammability Limits Not Applicable
Vapour Pressure No data available

Vapour DensityNo data availableRelative Density1.2 g/mL (approx.)Solubility in WaterSolublePartition Coefficient: n-octanol/waterSee section 12Auto ignition TemperatureNot Applicable

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Decomposition Temperature



Kinematic Viscosity

No data available

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous Reactions
Incompatibility
None Known
None Known
None Known
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

 $\begin{tabular}{lll} Acute Oral Toxicity & LD50 > 5000 \ mg/kg \\ Acute Dermal Toxicity & LD50 > 5000 \ mg/kg \\ Acute Inhalation Toxicity & LD50 > 5 \ mg/L \\ Skin Irritant/Corrosive & Mild Skin Irritant \\ \end{tabular}$

Eye Irritant/CorrosiveNoneSensitisation EffectsNoneMutagenic EffectsNoneCarcinogenic EffectsNoneReproductive EffectsNoneSpecific Organ ToxicityNone

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 (Rat) >2000 mg/kg

• LC50 (96 hr) (Rainbow trout) 38 mg/l

• LC50 (48 hr) (Daphnia) 40 mg/l

EC50 (72 hr) (Algae) 19 mg/l

Non 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: 3.7 mg/l as glyphosate (in water); equivalent to 1 ml Deal 510RF per 140 litres of water

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 69%)

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 HSR000133
ACVM Registration No P7340

Qualified Person Only required when used as an aquatic herbicide for application onto or into water

Certified Handler Not required

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Workplace Only

Tracking Not required

Record Keeping Not required

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 1000 litres

An emergency response plan is required for more than 1000 litres

Secondary containment is required for more than 1000 litres

Separation/Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is not applicable

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

16: Other Information

Additional Requirements

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

No

FC50 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

Compliance Certificate

Hazardous Area

Protected Place

For locations storing hazard substances of certain classes above threshold quantities

HAZCHEM Code Emergency action code for emergency services

HSWHS Reas 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

Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the MTO

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

PDF Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of exposure

Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009

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.

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

Positioned at entrances to commercial premises providing information on the hazardous substances present 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-Water Partitioning

Coefficient (Koc)

STEL

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

Short term exposure level – 15 minute time weighted average



Tolerable Exposure Limit

Workplace Exposure Standard

Tracking

TWA

Maximum concentration limit of a substance above which persons must not be exposed

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

Time weighted average calculated over an 8 hour working day

An occupational health standard limiting concentrations of specified substances to which persons are exposed

A product that is restricted to a workplace only and under the supervision of a certified handler

Workplace Only
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.