

### 1: Identification of the Substance and Supplier

Product Name G FORCE MAX

Recommended Use Herbicide

**Suppliers Details** Orion AgriScience Ltd

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 Web Address
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 Email Address
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**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 January 2020

#### 2: Hazards Identification

**Hazard Pictograms** 



#### **Signal Words**

#### **Hazard Classes:**

6.3A Skin Irritation (Cat. 2)9.1B Aquatic Ecotoxicity (Cat. 2)

### **Precautionary Statements:**

Prevention

Response

#### 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.

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

Ingredient CAS No Content (% w/v)

Glyphosate isopropylamine (active ingredient) 38641-94-0 73

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.

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**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 unwellWorkplace 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 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. Keep bystanders away.

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 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.

Clean protective equipment after use

#### 9: Physical and Chemical Properties

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AppearanceClear green liquidOdourFaint amine or odourless

Odour Threshold No data available

**pH** 4.5 – 5.5

Melting Point/Freezing Point No data available

**Boiling Point** >100°C

Flash Point

Flammability

Not Applicable

No data available

No data available

Relative Density

1.2 g/mL (approx.)

Solubility in Water Soluble

Partition Coefficient: n-octanol/water

Auto ignition Temperature

Decomposition Temperature

No data available

Kinematic Viscosity

See section 12

Not Applicable

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/LSkin Irritant/CorrosiveMild Skin Irritant

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:

• 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)

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**Environmental Exposure Limit:** 

3.7 mg/l as glyphosate (in water); equivalent to 1 ml G Force Max per 150 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** 3082 **UN Number Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLYPHOSATE ISOPROPYLAMINE 73%) 9 Class **Subsidiary Class** None **Packing Group** Ш **Additional Information** MARINE POLLUTANT MTQ (Non-Commercial) 1000 litres **Passenger Service Vehicle** No restriction

15 Regulatory Information	
EPA Approval No	HSR000133
ACVM Registration No	P8296
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	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
	Fire extinguishers are not required
	Signage is required for more than 1000 litres
	An emergency response plan is required for more than 1000 litres
	<ul> <li>Secondary containment is required for more than 1000 litres</li> </ul>
	• Separation/Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is not
	applicable
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)

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**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.

**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**The 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

The block of a characteristic form

**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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