

1: Identification of the Substance and Supplier

Product Name BRUSH OFF

Recommended Use Herbicide

Suppliers Details Orion AgriScience Ltd

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 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision June 2020

2: Hazards Identification

Hazard Pictograms

Signal Words

Hazard Classes:

6.1D Acute Toxicity (Oral Cat. 4)

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

6.5B Skin Sensitisation (Cat. 1)

6.9B Target Organ Systemic Toxicity (Oral Cat. 2)

9.1A Aquatic Ecotoxicity (Cat. 1)

9.2A Soil Ecotoxicity

9.3C Terrestrial Vertebrate Ecotoxicity

Precautionary Statements:

Prevention

Warning

Hazard Statements:

H302 Harmful if swallowed

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects Very toxic to some plant species (selective herbicide)

Harmful to terrestrial vertebrates

P264 Wash hands thoroughly after handling

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

P280 Wear eye protection / face protection

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves

P260 Do not breathe dust/fume/gas/mist/vapours/spray

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

P332+P317 If skin irritation occurs get medical advice

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+P317 If eye irritation persists: Get medical help

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Response



P302+P352 IF ON SKIN: Wash with plenty of water

P333+P317 If skin irritation or rash occurs: Get medical help

P321 Specific treatment (See first aid instructions)

P362+P364 Take off contaminated clothing and wash it before reuse

P319 Get medical help if you feel unwell

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 Keep out of reach of children.

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)

Triclopyr butoxyethyl ester (active ingredient) 64700-56-7 83

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 or rash 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 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: Dizziness, headache, nausea, incoordination

Skin Contact: Irritation. Contact may induce an allergic response in susceptible individuals

Eye Contact:IrritationInhalation:Irritation

5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable but will be combustible in a fire

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 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.

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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: Keep out of reach of children. 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

None established

Workplace Exposure Standards

None established

Engineering ControlsSelect spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

Eye Safety glasses/goggles when mixing or applying

SkinCotton 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

AppearanceAmber LiquidOdourNon-specificOdour ThresholdNo data availablepHNot applicable

Melting Point/Freezing PointNo data availableBoiling PointNo data available

Flash Point >93°C

Flammability Not flammable but will be combustible in a fire

Upper/Lower Flammability LimitsNo data availableVapour PressureNo data availableVapour Density>1 (heavier than air)Relative Density1.20 g/mL (approx.)

Solubility in Water
Partition Coefficient: n-octanol/water
Auto ignition Temperature
Decomposition Temperature
No data available
Kinematic Viscosity
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 Toxicity LD50 > 300 mg/kg

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

Skin Irritant/Corrosive Irritant

Eye Irritant/Corrosive Irritant

Sensitisation Effects Potential contact sensitiser in susceptible individuals

Mutagenic EffectsNoneCarcinogenic EffectsNoneReproductive EffectsNone

Specific Organ Toxicity

Long term animal feeding studies on triclopyr at high doses have found to be damaging to the liver and

kidneys.

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 • LD50 (21 day) (Bobwhite quail) 735 mg/kg

• LC50 (96 hr) (Fish) 2.8 μg/l

EC50 (24 hr) (Algae) 0.1 mg/l

Very toxic to some plant species (selective herbicide)

Non - toxic to bees.

Persistence/degradability Biodegradable. DT50 (soil) 2 days (typical)

Bioaccumulative Potential Octanol-water partition coefficient LogP = 4.62 (high)

Soil Mobility Soil organic carbon water partitioning coefficient No data available

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. (TRICLOPYR BUTOXYETHYL ESTER 83%)

Class 9

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 litres

Passenger Service Vehicle Maximum quantity 1 litre

15 Regulatory Information

EPA Approval No
ACVM Registration No
P5661
Qualified Person
Required
Certified Handler
Not required

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Workplace Only	No
Tracking	Not required
Record Keeping	Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)
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 100 litres
	An emergency response plan is required for more than 100 litres
	Secondary containment is required for more than 100 litres
	Segregation from incompatible substances is not required
Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

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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
мто	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
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A place frequented by the public, including roads (does not include private property)

people assemble

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Public Place



Qualified PersonA 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

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-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

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 OnlyA 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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