

1: Identification of the Substance and Supplier

Product Name FENICAN
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 June 2020

2: Hazards Identification

Hazard Pictograms

Signal Words

Hazard Classes:

6.1E Acute Toxicity (Oral Cat. 5)

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

6.5B Skin Sensitisation (Cat. 1)

6.7B Carcinogenicity (Cat. 2)

6.8B Reproductive Toxicity (Cat. 2)

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

9.1A Aquatic Ecotoxicity (Cat. 1)

9.2A Soil Ecotoxicity

9.3B Terrestrial Vertebrate Ecotoxicity

Precautionary Statements:

Prevention



Danger

Hazard Statements:

H303 May be harmful if swallowed

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H372 Causes 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)

Toxic to terrestrial vertebrates

P264 Wash hands thoroughly after handling

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

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

P203 Obtain, read and follow all safety instructions before use

P280 Wear protective gloves/protective clothing/eye protection/face protection

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

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

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

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

Response



P337+P317 If eye irritation persists: Get medical help 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

P318 If exposed or concerned, get medical advice

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 P405 Store locked up

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)

Diuron (active ingredient)330-54-128.5Terbuthylazine (active ingredient)5915-41-328.5Other 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: 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: 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 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: Vomiting, diarrhoea

Skin Contact:IrritationEye Contact:Irritation

Inhalation: No data available

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

Page: 2 of 6



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 PrecautionsPrevent 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 locked and 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 Diuron 10 mg/m3 (8hr TWA)

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.

< 0°C

Clean protective equipment after use

Melting Point/Freezing Point

9: Physical and Chemical Properties

Appearance Off white to beige Liquid

OdourNon-specificOdour ThresholdNo data availablepH4 - 10 (1% dispersion)

Boiling Point > 100°C

Flash Point Not applicable

Flammability Not flammable

Upper/Lower Flammability Limits Not applicable

Vapour Pressure No data available

Vapour Density No data available

Relative Density

Solubility in Water

Partition Coefficient: n-octanol/water

Auto ignition Temperature

Decomposition Temperature

Kinematic Viscosity

1.16 g/mL (approx.)

Dispersible

See section 12

Not applicable

No data available

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone KnownHazardous Decomposition ProductsNone Known

Page: 3 of 6



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

 $\begin{tabular}{lll} \mbox{Acute Oral Toxicity} & LD50 > 2000 \mbox{ mg/kg} \\ \mbox{Acute Dermal Toxicity} & LD50 > 5000 \mbox{ mg/kg} \\ \mbox{Acute Inhalation Toxicity} & LD50 > 5 \mbox{ mg/L} \\ \end{tabular}$

Skin Irritant/Corrosive Irritant

Eye Irritant/Corrosive Irritant

Sensitisation Effects May cause an allergic skin reaction in susceptible individuals

Mutagenic Effects None

Carcinogenic Effects Diuron is a suspected carcinogen

Reproductive Effects Diuron is a suspected human reproductive or developmental toxicant

Specific Organ Toxicity Ingestion of diuron at high doses is damaging to liver

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:

	nted in respect of the active ingredient:				
Ecotoxicity	Diuron				
	• LD50 (Bird) 1104 mg/kg				
	LC50 (96 hr) (Rainbow trout) 5.6 mg/l				
	• EC50 (Algae) 0.02 mg/l				
	• LC50 (48 hr) (Daphnia) 12 mg/l				
	Non toxic to bees				
	Terbuthylazine				
	Acute Oral LD50 (Ducks) >1000 mg/kg				
	• LC50 (96 hr) (Rainbow trout) 3.8 – 4.6 mg/l				
	• LC50 (48 hr) (Daphnia) 21 – 50.9 mg/l				
	• Algae EC50 (72 hr) 0.016 – 0.024 mg/l				
	Non toxic to bees				
Persistence/degradability	Biodegradable. DT50 (soil) 147 days (typical) (Diuron)				
	Biodegradable. DT50 (soil) 72 days (typical) (Terbuthylazine)				
Bioaccumulative Potential	Octanol-water partition coefficient	LogP = 2.87 (moderate) (Diuron)			
		LogP = 3.4 (high) (Terbuthylazine)			
Soil Mobility	Soil organic carbon water partitioning coefficient	Koc = 680 (slightly-mobile) (Diuron)			
		Not available (Terbuthylazine)			
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.			

∕1 •	ranc	nort	Intor	mation
	папэ		шоц	mation

Dan	Ta La l	401	HG.	AY	a Ya		
-4511		-	-	-ca		-	

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIURON 28%, TERBUTHYLAZINE 28%)

Page: 4 of 6



Class

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 litres

Passenger Service Vehicle Maximum 1 litre

15 Regulatory Information

EPA Approval No
HSR000252
ACVM Registration No
P4208
Qualified Person
Required
Certified Handler
Workplace Only
No

Tracking Not required

Record KeepingNot 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

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

16: Other Information

Gloccony		

and HSWHS Regs:

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

Page: 5 of 6



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.

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

oresent

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

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

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.

Page: 6 of 6