

1: Identification of the Substance and Supplier

Product Name FENICAN
Recommended Use Herbicide

Suppliers Details Orion AgriScience Ltd

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 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 March 2025

2: Hazards Identification

Hazard Pictograms

Signal Words

Hazard Classes:

Eye Irritation (Cat. 2)

Skin Sensitisation (Cat. 1)

Carcinogenicity (Cat. 2)

Reproductive Toxicity (Cat. 2)

Specific target organ toxicity (repeated exposure) (Cat. 1)

Hazardous to the aquatic environment acute (Cat. 1)

Hazardous to the aquatic environment chronic (Cat. 1)

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

Precautionary Statements:

Prevention

Danger

Hazard Statements:

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

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H421 Very toxic to the soil environment

H432 Toxic to terrestrial vertebrates

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P264 Wash hands thoroughly after handling

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

P201 Obtain special instructions before use

P202 Do not handle until all safety instructions have been read and understood

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

P273 Avoid release to the environment

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.

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

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P337+P313 If eye irritation persists: Get medical advice/attention

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P321 Specific treatment (See first aid instructions)

P362+P364 Take off contaminated clothing and wash it before reuse P308+P313 If exposed or concerned: Get medical advice/attention

P314 Get medical advice/attention 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: Get medical advice/attention if you feel 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 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: 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 InstructionsDuring 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

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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 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 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.

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance Off white to beige Liquid

OdourNon-specificOdour ThresholdDoes not apply

pH 4 - 10 (1% dispersion)

Melting Point/Freezing Point < 0°C Boiling Point > 100°C

Flash Point Does not apply
Flammability Not flammable
Upper/Lower Flammability Limits Does not apply
Vapour Pressure Does not apply

Vapour Density

Relative Density

Does not apply
1.16 g/mL (approx.)

Solubility in Water
Partition Coefficient: n-octanol/water
See section 12
Auto ignition Temperature
Does not apply

Decomposition TemperatureDoes not applyKinematic ViscosityDoes not applyParticle characteristicsDoes not apply

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone KnownHazardous Decomposition ProductsNone Known

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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 > 2000 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/L

Skin corrosion/irritation Irritant
Serious eye damage/Eye irritation Irritant

Respiratory or skin sensitisation May cause an allergic skin reaction in susceptible individuals

Germ cell mutagenicity Information not available

Carcinogenicity Diuron is a suspected carcinogen

Reproductive Toxicity Diuron is a suspected human reproductive or developmental toxicant

Specific Organ Toxicity – Single Information not available

Specific Organ Toxicity – Repeated

exposure

specific Organ Toxicity - Repeated

exposure
Aspiration hazard Information 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

Ingestion of diuron at high doses is damaging to liver

The following information is presented 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

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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. (DIURON 28%, TERBUTHYLAZINE 28%)

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

ACVM Registration No

P4208

Qualified Person

Certified Handler

Not required

Not required

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

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 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

SDS review date 13 March 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 (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.

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EPA Notice Hazardous Property Controls Notice 2017

ERP GuideDangerous 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 use

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

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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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