

Section 1: Identification

Product name: Diquik 200

Other names: 200 g/litre diquat as the dibromide salt as a soluble concentrate.

Recommended use: For use as a desiccant in Barley, Green Beans, Lentils, Lucerne,

Peas, Red Clover, Soya Beans, Wheat and White Clover, haulm

destruction in Potatoes, and aquatic weed control.

Manufacturer/Importer details: AgStar New Zealand Pty Ltd

4 Putakitaki Street, Lincoln,

Christchurch 7608

Distributor: Farmlands Co-operative Society Limited

535 Wairakei Road, Burnside, Christchurch 8053

TEL 0800 200 600

24 hour emergency contact: 0800 CHEMCALL (0800 243622)

National Poisons Centre: 0800 POISON (0800 764766)

Section 2: Hazard identification

Product is classified as hazardous according to the Hazardous

Substances (Hazard Classification) Notice 2020 of the HSNO Act,

1996.

HSNO Approval: HSR000446

Hazardous classification: Corrosive to metals category 1, Acute inhalation toxicity Category

3, Acute oral toxicity Category 4, Skin irritation Category 2,

Specific target organ toxicity (repeated) Category 1, Hazardous to the aquatic environment (acute) Category 1, Hazardous to the aquatic environment (chronic) Category 1, Hazardous to

terrestrial vertebrates.

Pictograms:



Signal word: DANGER

Hazard statements: H290 May be corrosive to metals.

H331 Toxic if inhaled. H302 Harmful if swallowed. H315 Causes skin irritation.

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.

Harmful to terrestrial vertebrates.

Prevention statements: P102 Keep out of reach or children.

P103 Read label before use.



P234 - Keep only in original container.

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

P264 - Wash hands thoroughly after handling.

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

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing.

Response statements: P101 If medical advice is needed, have product container or label

at hand.

P390 - Absorb spillage to prevent material damage.

P304+340 - IF INHALED: Remove to fresh air and keep at rest in

a position comfortable for breathing.

P311 - Call a POISON CENTRE or doctor/physician.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or

doctor/physician if you feel unwell.

P330 - Rinse mouth.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P332+P313 - If skin irritation occurs: Get medical advice/

attention.

P362 - Take off contaminated clothing and wash before re-

use."

P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage.

Storage statements: P406 - Store in a corrosive resistant container with a resistant

inner liner.

P403+P233 - Store in a well-ventilated place. Keep container

tightly closed.

P405 - Store locked up.

Disposal statement: P501 Dispose of product and containers in accordance with local

Regulations. See Section 13 for details.

Additional Label

Requirements: Do not apply into or onto water.

Take all reasonable steps to ensure that the substance does not

cause any significant adverse effects to the environment beyond

the application area.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

Ingredient	CAS No.	Proportion
Diquat*	2764-72-9	200g/L
Other ingredients	Proprietary	To 100%

^{*} In the form of Diquat dibromide.

Section 4: First-aid measures

First aid measures: If medical advice is needed, have product container or label at

hand. For advice contact National Poisons Centre 0800 POISON

[0800 764 766] or a doctor.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately contact the

National Poisons Centre 0800 POISON (0800 764 766) or a

doctor



Inhalation: Remove to fresh air and keep at rest in a position comfortable for

> breathing. Contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth.

Wash with plenty of soap and water. Do NOT scrub the skin. Skin contact:

Remove all contaminated clothing immediately. Get medical

advice if you feel irritation persists or you feel unwell.

Rinse cautiously with water for several minutes. Remove contact Eye contact:

lenses, if present and easy to do. Continue rinsing. If irritation

persists, get medical attention.

Provide eye baths and safety showers close to areas where First aid facilities:

product contact or splashing may occur.

Advice to doctor: Treat symptomatically.

Section 5: Fire-fighting measures

Flammability: Non-flammable.

Appropriate extinguishing

media:

Water spray, foam, dry powder, carbon dioxide. Avoid water jet.

Hazardous decomposition

products:

During a fire, toxic fumes may be emitted. Wear self-contained

breathing apparatus. Contain runoff.

Special protective equipment and precautions for fire-

fighters:

In the event of fire, wear self-contained breathing apparatus. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Prevent run-off from contaminating drains, sewers or waterways.

Inform appropriate authorities immediately if product or run-off

enters waterways.

HAZCHEM code: 2X

Section 6: Accidental release measures

Avoid contact with skin, eyes and inhalation of spray mist. Personal precautions:

> When mixing and applying wear full protective clothing such as impervious gloves, eye protection, respirator, waterproof hat, coat

and trousers (worn outside rubber boots).

Environmental precautions: Contain and collect spillage. Prevent chemical contaminating

drains or watercourses by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters waterways or sewers. Prevent chemical contaminating soil.

Procedure for clean up:

Collect spill and absorb residues with inert absorbent material such as sand, soil or clay granules. Collect into an appropriate, labelled, waste container and dispose of at an approved facility. Prevent runoff entering waterways or contaminating the soil.

Section 7: Handling and storage

Read label before use. Use only outdoors or in a well-ventilated Safe handling:

area. Wear protective clothing; chemical goggles or a face shield, impervious gloves, overalls and boots when handling.. Wash splashes from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work.

Wash contaminated clothing before re-use.



Safe storage: Store in original corrosive resistant container, tightly closed, away

from foodstuffs and under lock and key. Store in a cool, dry, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing quantities of 100 litres or more require signage, secondary

containment and an emergency response plan.

Section 8: Exposure controls/personal protection

Diquat 2764-72-9 0.5; 0.1 mg/m³ -

Biological limit value: None set as of WorkSafe's 14th edition of WES and BEI values,

published November 2023.

Engineering controls: Use only in well-ventilated areas. If necessary, use local exhaust

ventilation to keep airborne concentration below the exposure

limits.

Respiratory protection: Wear half or full mask fitted with vapour filter when mixing or

applying spray.

Hand protection: Elbow length, chemical resistant gloves (e.g. PVC, rubber,

neoprene or nitrile).

Eye protection: Goggles with side pieces or a face shield.

Skin protection: Overalls and PVC or rubber boots.

General hygiene: Do not eat, drink or smoke while using. Wash hands and exposed

skin thoroughly with soap and water before meals and after work.

Wash protective clothing daily after work.

Personal Protection: Further information on specific types of personal protective gear

and related standards is available in Section 16.

Section 9: Physical and chemical properties

(a) Appearance: Red-brown liquid(b) Odour: Non-specific

(c) Odour threshold: Not available.(d) pH: 4.0 – 8.0.

(e) Melting point/freezing

point: Not available.

(f) Initial boiling point and

boiling range: Not available
(g) Flash point: No data available

(h) Flammability (solid,

gas): Not applicable.

(i) Upper/lower flammability or

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Not available. explosive limits: (j) Vapour pressure: No data available.

(k) Vapour density: No data available.

(I) Relative density: Ca. 1.172

Solubility: Miscible in water. (m)

Partition coefficient: (n)

> n-octanol/water: Not available.

(o) Auto-ignition

> Not available. temperature:

(p) Decomposition

temperature: Not available. Not available. (q) Kinematic viscosity: Not applicable. Particle characteristics (r)

Section 10: Stability and reactivity

Stability of the substance: Stable under normal conditions of storage and use.

Conditions to avoid: Avoid direct sunlight; avoid generation of dust and excessive

Incompatible with strong alkalis or oxidising materials. Incompatible materials:

Hazardous decomposition

products:

Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Hydrogen chloride and toxic oxides of nitrogen are released when the product

decomposes on heating.

Section 11: Toxicological information

Toxicity classifications determined by assessment of the

components in the formulated mixture.

Toxic if inhaled and harmful if inhaled. a) Acute toxicity:

b) Aspiration hazard: Not classified. c) Respiratory irritation: Not classified.

Skin corrosion /

irritation: Cause skin irritation.

e) Serious eye damage /

Not classified. irritation:

Respiratory or skin f)

> Not classified. sensitisation:

g) Germ cell

mutagenicity: Not classified. h) Carcinogenicity: Not classified. Reproductive toxicity: Not classified. i)

j) Specific organ toxicity: Cause damage to organs through prolonged or repeated

exposure.

k) Narcotic effects: Not classified. Other adverse effects: No information.

m) Toxicological information for

> Diquat acid: Acute Oral LD50 (rat) 300-2000mg/kg

> > Acute Dermal LD50 (rabbit) >2000mg/kg



Acute Inhalation: LC50 (rat) 0.5mg/L air

Section 12: Ecological information

Ecotoxicological classifications determined by assessment of the

active ingredient.

Very toxic to aquatic life (acute). (a) Aquatic ecotoxicity:

Very toxic to aquatic life with long-lasting effects (chronic).

Soil ecotoxicity (b) Not classified

Terrestrial vertebrate (c)

ecotoxicity:

Harmful to terrestrial vertebrates.

(d) Terrestrial invertebrate

ecotoxicity:

Not classified.

(e) Persistence and

degradability:

DT50 (Typical) 2345 days.

Potential to be (f)

bioaccumulative: Octanol-water partition coefficient LogP = -4.6 (low)

Mobility in soil. Soil organic carbon water partitioning coefficient Koc = 2184750 (g)

(non mobile)

(h) Ecotoxicological

information for active ingredient

Diquat: Acute Oral LD50 (Cattle) 30 mg/kg (i)

LC50 (96 hr) (bluegill) 18mg/L LC50 (48 hr) (Daphnia) 0.77 mg/l

Algae EC50 0.021 mg/l

Acute Oral LD50 (Bee) 51 µg/bee (moderately toxic)

Section 13: Disposal considerations

Product disposal: Dispose of this product only by using according to the label, or at

an approved landfill or other approved facility.

Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through agrichemical recycler. Otherwise crush and bury in a suitable

Container disposal: landfill. Do not reuse this container for any other purpose.

Section 14: Transport information

UN number: 3016

UN proper shipping name: BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC. (DIQUAT 20%)

UN class: 6.1 Packing group: Ш HAZCHEM: 2X Marine pollutant: Yes Special precautions:

> This product is classified as a Dangerous Good Class 6.1. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more

information.

Section 15: Regulatory information

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HSNO:

Substance approval number:

Tolerable exposure limit / environmental exposure limit:

HSNO controls:

Approved substance under the HSNO Act 1996.

HSR000446

No limits set.

See www.epa.govt.nz

Qualifications Yes Tracking: No

Safety Data Sheet: Any quantity

Restricted to workplace only: Yes Quantity that must be - secured when unattended:

Fire extinguishers -

Quantity for secondary 100 L

containment and emergency

response plan:

Quantity for signage: 100 L

Quantity for Location

certificate

Records of use (3 kg or more Yes

applied to area within 24

hours)

Quantity that requires management in accordance with HSW HS Regulations

Hazardous Substances UN Pack Group III

(Packaging) Notice 2017;

Clause 9

Additional controls: Where the substance is applied onto or into water and the water

has the potential to leave the place containing the application area, clauses 62, 63 and 64 of the Hazardous Property Controls Notice apply as if the substance has a hazard classification of hazardous to the aquatic environment acute Category 1.

Additional information: Take all reasonable steps to ensure that the substance does not

cause any significant adverse effects to the environment beyond

the application area.

Refer to WorkSafe for additional information on controls in the

workplace; www.worksafe.govt.nz.

ACVM: Registered under the Agricultural Compounds Veterinary

Medicines Act 1997.

Registration number: P10228

Conditions of registration: See www.foodsafety.govt.nz

Section 16: Other information

Date of issue: 03/09/2025
Reason for reissue: Updated label
Replaces: Not applicable

Information references: Supplier Safety Data Sheet

NZ EPA Approved hazardous substances databases.

Workplace Exposure Standards and Biological Exposure Indices

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Abbreviations: ACVM: Agricultural Chemicals and Veterinary Medicines Group

Bw: Bodyweight.

HSNO: Hazardous substances and New Organisms Act 1996

(HSNO Act)

EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number

LD50: Lethal Dose 50% (Population)

LC50: Lethal Concentration 50% (Population)

WES-TWA: Workplace exposure standards - Time-weighted

average

WES-STEL: Workplace exposure standards - Short-term

exposure limit

Personal Protection

Standards:

The following Standards provide general advice regarding safety

clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial

Eye Protection: AS1336 and AS/NZS 1337, Occupational

Protective Footwear: AS/NZS2210

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.