

**SAFE DATA SHEET**

Last revised June 2024

**DIQUIK 200**

## **SAFETY DATA SHEET**

**Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****1.1 Identifiers**Product Name: **Diquik 200**

200 g/L Diquat as dibromide salt SL

CHEMICAL NAME: 6,7-dihydrodipyrido[1,2-a:2',1'-c]pyrazinediium

CAS NUMBER: 2764-72-9

**1.2 Recommended use of the chemical and restrictions on use**

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.

**1.3 Supplier contact details**

Company: AGSTAR NEW ZEALAND LIMIED

Address: 4 Putakitaki Street Lincoln, 7608

Telephone: +64 27 483 9756

Email: [john@agstar.co.nz](mailto:john@agstar.co.nz)

24 hour emergency contact: 0800 CHEMCALL (0800 243622)

National Poisons Centre: 0800 POISON (0800 764766)

**Section 2: HAZARDS IDENTIFICATION****2.1 Hazardous Classification**

Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996, HSR000446

HSNO Classification	Hazard Statement
6.1C	Acute Toxicity (Oral Cat. 3)
6.3A	Skin Irritation (Cat. 2)
6.9A	Specific Target Organ Toxicity (Cat. 1)
8.1A	Corrosive to Metals (Cat. 1)
9.1A	Aquatic Ecotoxicity Acute (Cat. 1)
9.3C	Terrestrial Vertebrate Ecotoxicity

**2.2 Label elements**

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Pictogram:



Signal word: DANGER

### Hazard Statements:

H331 Toxic if inhaled

H302 Harmful if swallowed

H315 Causes skin irritation

H372 Causes damage to organs through prolonged or repeated exposure

H290 May be corrosive to metals

H410 Very toxic to aquatic life with long lasting effects

Harmful to terrestrial vertebrates

### Prevention Statements:

#### Prevention

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

P102 Keep out of reach of children

P103 Read carefully and follow all instructions

P264 Wash hands thoroughly after handling

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

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

P280 Wear protective gloves/protective clothing/eye protective

P234 Keep only in original packaging

Avoid contact with eyes and skin. Do not breathe in the vapour or 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

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application area. Do not apply directly into or onto water

**Response**

P304+P340 IF INHALED: Move person to fresh air and keep comfortable for breathing

P316 Get emergency medical help immediately

P321 First aid measures described in section 4

P301+P317 IF SWALLOWED: Get medical help

P330 Rinse mouth

P302+P352 IF ON SKIN: Wash with plenty water

P332+P317 If skin irritation occurs: Get medical help

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

P319 Get medical help if you feel unwell

P390 Absorb spillage to prevent material damage

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).

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	Content w/v	CAS NO
Diquat *	200	2764-72-9
Other non-hazardous ingredients	To Balance	-

\* In the form of Diquat dibromide.

**Section 4 - FIRST AID MEASURES****4.1 Description of first aid measures**

General Information: For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use

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mouth-to-nose rather than mouth-to mouth. Obtain medical attention.

**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.

**Skin Contact**

Wash with plenty of soap and water. Seek medical advice if irritation occurs

**Inhalation**

Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling unwell.

**Ingestion**

Rinse mouth. Seek medical advice if feeling unwell.

**4.2 Symptoms caused by exposure**

Unlikely to cause harmful effects under normal conditions of handling and use.

**4.3 Medical attention and special treatment**

Treat symptomatically.

**Section 5 - FIRE FIGHTING MEASURES****5.1 Flammability:**

Non-flammable.

**5.2 Suitable Extinguishing media:**

Water spray, foam, dry chemical, CO<sub>2</sub>. Avoid water jet.

**5.3 Specific hazards arising from the chemical**

No data available.

**5.4 Special protective equipment and precaution for fire fighters**

During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

**5.5 Hazchem Code:**

3Z

**Section 6 - ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing (overalls buttoned at wrist and neck), chemical resistant gloves and boots and chemical goggles or face shield.

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**DIQUIK 200****6.2 Environmental precautions**

Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

**6.3 Method and materials for containment and cleaning 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.

**Section 7 - HANDLING AND STORAGE****7.1 Precautions for Handling**

Read label before use. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands thoroughly after handling. For personal protection see section 8.

**7.2 Conditions for safe storage**

Keep out of reach of children. Keep container tightly closed when not in use. Store in secure, cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the current version NZS 8409 Management of Agrichemicals.

**Section 8 - EXPOSURE CONTROLS / PPE****8.1 Control parameters – exposure standards, biological monitoring****Exposure Limit:**

None established.

**8.2 Engineering Controls**

Select spray application equipment to minimize exposure to operator and bystanders

**8.3 Personal Protection**

Safety glasses. Synthetic apron. Gloves (impervious). Wear suitable protective clothing. Chemical resistant boots. Respirator is recommended.

**Section 9 - PHYSICAL/CHEMICAL PROPERTIES**

Appearance: Red-brown Liquid

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Odour: Non-specific

PH:4.0-8.0

Melting Point: Not available

Boiling Point: No data available

Flash Point: Not flammable

Flammability (Solid, gas) : Not applicable

Upper/lower flammability or explosive limits: Not available

Vapour pressure:No data available

Vapour density: No data available.

Relative density: Ca. 1.172

Solubility: Miscible with water

Partition coefficient: not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available.

Kinematic viscosity: Not available.

Particle characteristics: Not applicable

**Section 10 - STABILITY AND REACTIVITY****10.1 Reactivity**

This product is unlikely to react or decompose under normal storage conditions.

**10.2 Storage Stability**

When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.

**10.3 Conditions to Avoid**

Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight

**10.4 Incompatible Materials**

No data available

**10.5 Polymerisation**

This product will not undergo polymerisation reactions.

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**DIQUIK 200****Section 11 - TOXICOLOGICAL INFORMATION****11.1 Health hazard information**

Potential Health Effects. This section includes the possible adverse health effects that could occur if the substance is not handled as recommended.

**11.2 Toxicity information**

Acute Oral LD50 (rat) 300-2000mg/kg

Acute Dermal LD50 (rabbit) &gt;2000mg/kg

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

Skin Irritant/corrosive: Cause skin irritation

Eye Irritant/corrosive: May cause serious eye damage

Sensitisation Effects: None.

**Section 12 - ECOLOGICAL INFORMATION****Ecotoxicity**

Acute Oral LD50 (Cattle) 30 mg/kg

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)

**Persistence/degradability**

Biodegradable. DT50 (soil) 2345days (typical)

**Bioaccumulative Potential**

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

**Soil Mobility**

Soil organic carbon water partitioning coefficient Koc = 2184750 (non mobile)

**Environmental Exposure Limit:**

None established

**Section 13 –DISPOSAL CONSIDERATIONS**

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**DIQUIK 200****13.1 Product Disposal**

Refer to product label. If possible, dispose of by using according to the label. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal.

**13.2 Container Disposal**

Triple rinse container and add residue to spray tank. Recycle clean, empty container through an agrichemical recycling service if possible or crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.

**Section 14 - TRANSPORT INFORMATION**

**This product is classified as a Dangerous Good for transport in NZ**

UN Number: 2922

Class primary: 6

Packing group: III

Hazchem Code: 2X

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (DIQUAT 20%)

**Section 15 - REGULATORY INFORMATION****New Zealand**

Product is classified as hazardous according to the Hazardous Substances (Hazard Classification)

Notice 2020 of the HSNO Act, 1996, HSR000446

HSNO Classification: 6.1C, 6.3A, 6.9A, 8.1A, 9.1A, 9.3C

See [www.epa.govt.nz](http://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 containment and emergency response plan:	100 L



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Quantity for signage:	100 L
Quantity for Location certificate	-
Records of use (3 kg or more applied to area within 24 hours)	Yes
Quantity that requires management in accordance with HSW HS Regulations	-
Hazardous Substances (Packaging) Notice 2017; Clause 6	UN Pack Group III

Additional controls: -

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](http://www.worksafe.govt.nz).

ACVM: Registered under the Agricultural Compounds Veterinary Medicines Act 1997.

Registration number: P10228 See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

**Section 16 - OTHER INFORMATION**

Issue Date: June 12, 2024

Reason for reissue: New product

Replaces: Not applicable.

Information references: Supplier Safety Data Sheet

NZ EPA Approved hazardous substances databases.

Workplace Exposure Standards and Biological Exposure Indices

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)

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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 given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

End of Safety Data Sheet