



SAFETY DATA SHEET

DY QUAT 200

Date of Issue: 23rd April 2020

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Diquat as the dibromide salt

Recommended use: Herbicide

Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

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

Required identification Details:

Signal Word: DANGER
Keep out of reach of Children.
Read label before use.

Toxic if swallowed, inhaled or absorbed through the skin.
May cause skin irritation.
May cause eye damage from repeat oral exposure at high dose rates.
May be corrosive to metals.
Very toxic to aquatic organisms.
Harmful to terrestrial vertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Diquat as the dibromide salt	85-00-7	20

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation: Move person to fresh air. If person is not breathing, call an

ambulance, then give artificial respiration if possible. Call a poison control centre or doctor for further treatment advice.

Ingestion: Call the National Poison Centre 0800 poison (0800 764 766). Have a person sip a glass of water if able to swallow. Do not induce vomiting.

Skin contact: Take off contaminated clothing. Rinse skin immediately for 15-20 minutes. Wash with soap and water. If irritation persists see a doctor.

Eye contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Notes to a physician: No specific antidote. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Foam. Carbon dioxide. Dry powder.

Hazardous thermal (de)composition products: This product may form flammable and explosive hydrogen gas when in contact with aluminium.

HAZCHEM Code: 3[Y]

Protection of fire-fighters: Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Environmental precautions: Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up: In the case of spillage, contain and absorb spilled material with absorbent material such as sand clay or cat litter. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities.

7. HANDLING AND STORAGE

Handling: When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Storage: This product reacts with aluminium to produce flammable hydrogen gas. Do not mix or store in containers or systems made of aluminium or having aluminium fittings. Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep away from sparks and flames. Keep out of reach of children.

Packaging materials:

HDPE Plastic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards:

Not established.

Engineering measures

Exposure control measures:

Ensure ventilation is adequate. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:

A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapour cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

Skin and body:

Avoid contact with skin. If there is a significant potential for contact, wear suitable coveralls.

Hands:

Wear suitable protective gloves against chemicals. Nitrile rubber min. 0.5mm thick and 300mm long gloves are the ones proven to be the most suitable according to tests on pesticide products. Wash the gloves thoroughly after each use, especially the insides. Replace gloves if damaged and before exceeding the breakthrough time.

Eyes:

Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

General hygiene:

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour.

Reddish brown liquid, with slight odour.

pH:

Vapour Pressure:

Boiling Point:

Flash Point:

Freezing/melting point:

Solubility:

Density:

Information for flammable material:

Viscosity:

Octanol/water partition coefficient:

Other Data:

10. STABILITY AND REACTIVITY

Stability:	Stable when stored in original container under normal conditions of storage and use.
Conditions to avoid:	Concentrate should not be stored in aluminium containers. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.
Materials to avoid:	Strong alkalis and anionic wetting agents (e.g., alkyl and alkylaryl sulfonates). Corrosive to aluminium.
Hazardous Decomposition Products:	Can decompose at high temperatures forming toxic gases. Flammable hydrogen gas may be formed on contact with aluminium.
Hazardous polymerization:	

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	Not available.
Acute toxicity - Dermal:	Not available.
Acute toxicity – Inhalation:	Not available.
Skin irritation:	Not available.
Eye irritation:	Not available.
Sensitization:	Not available.
Chronic toxicity	
Carcinogenicity:	No evidence of carcinogenicity in rat and mouse studies (active).
Mutagenicity:	No evidence in in vivo assays (active).
Reproduction toxicity:	In rabbit studies a small percentage of foetuses had minor defects at 3 and 10 mg ion/kg/d (active).

12. ECOLOGICAL INFORMATION

Acute Toxicity (active)

EC₅₀ algae, (96h):	21 µg /l
LD₅₀ birds, <i>Mallard duck</i>:	155 mg/kg
LD₅₀ honey bees oral, <i>Apis mellifera</i> (120h):	22 µg a.s./bee
LD₅₀ earthworm, (14D):	243 mg/kg

Chronic Toxicity

NOEC fish, <i>Oncorhynchus mykiss</i> (96h):	39 mg/l
NOEC aquatic invertebrates, <i>Daphnia magna</i> (48h):	2.2 mg/l

Degradability: Rapidly degraded by soil micro-organisms, DT50 of unadsorbed diquat <1 w; strong binding in soil increases persistence. Strongly bound and inactivated by soil and aquatic sediments and does not leach into groundwater; Kd >10 000.

Mobility:

Bioaccumulation: In rats, following oral administration of diquat dibromide, the dose is completely eliminated in the urine and faeces within 4 days. Metabolic breakdown of diquat dibromide does not occur in plants. On plant surfaces, photochemical degradation occurs

13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Triple rinse container and add recycle through the Agrecovery Programme. If this is not possible, bury in landfill.
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Empty container precautions: Avoid contamination of any water supply with chemical or empty container.

14. TRANSPORT INFORMATION - International transport regulations

UN number: 1760
Class or Division: 8
Subsidiary Class: 6
Packing Group: III
Marine Pollutant: Yes
Proper shipping name: Corrosive liquid N.O.S. (Diquat 20%)

**INTERNATIONAL AIR
TRANSPORT ASSOCIATION
(IATA):**

15. REGULATORY INFORMATION

ACVM Registered Number: P008929
HSNO Approval Code: HSR000446

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 2020
Revision Date:
Replaces:

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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