



ADAMA
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MATERIAL SAFETY DATA SHEET

Version 1

Publish date:
09/12/2020

ADAMA DIQUAT

SECTION 1 - . PRODUCT AND COMPANY IDENTIFICATION

DIQUAT 200G/L SL

COMPANY NAME: ADAMA South Africa (Pty) Ltd

ADDRESS: Ground Floor, Simeka House
The Vineyards Office Estate,
99 Jip de Jager Drive
Bellville
7530

PHONE NO: +27 21 982 1460

EMERGENCY NO: +27 82 446 8946

+27 861 555 777

PRDOCUCT NAME: ADAMA DIQUAT

CHEMICAL NAME: 6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinediium dibromide

CAS NUMBER: 344.5 (dibromide)

MOLECULAR FORMULA: C₁₂H₁₂Br₂N₂ (dibromide)

MOLECULAR WEIGHT: 344.5 (dibromide)

USE: Herbicide

SECTION 2 - . COMPOSITION / INFORMATION ON INGREDIENTS

DIQUAT ION: 200g/L w/v min

OTHERS: Up to 1L

SECTION 3 - . HAZARDS IDENTIFICATION

Harmful if swallowed. Irritant (eye, skin, respiratory passages).

SECTION 4 - . FIRST AID MEASURES

INHALATION: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poisons Information Centre immediately.

SKIN: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If

CONTACT: symptoms persist, call a physician. Wash contaminated clothing before re-use.

EYE Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

CONTACT: Remove contact lenses. Immediate medical attention is required.

INGESTION: If swallowed, seek medical advice immediately. DO NOT induce vomiting.



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SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, foam or CO₂ extinguishing media.

THERMAL DECOMPOSITION Nil

PRODUCTS:

SPECIAL FIRE FIGHTING Wear full protective clothing and self-contained breathing apparatus.

METHODS: Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

UNUSUAL FIRE OR EXPLOSION HAZARDS: This product may form flammable and explosive hydrogen gas when in contact with aluminum.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Avoid skin and eye contact and the inhalation of vapour and mist. Wear overalls, face shield, elbow-length impervious gloves, splash apron and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

STORAGE:

Store in the closed, original container in a dry, cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or a place away from children, animals, food, feedstuffs, seed and fertilisers.



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SECTION 8 - . EXPOSURE CONTROLS / PERSONAL PROTECTION

INGESTION:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

EYE PROTECTION:

Where eye contact is likely, use chemical splash goggles.

SKIN PROTECTION:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

RESPIRATOR:

A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

SECTION 9 - . PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark red brown liquid
ODOR:	Non-specific
BOLING POINT:	Approx 100°C
DENSITY:	1.19 g/cm ³
SOLUBILITY:	Soluble in water

SECTION 10 - . STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Corrosive in contact with metals
CONDITIONS TO AVOID:	Corrosive in contact with metals
INCOMPATIBLE MATERIALS:	Aluminium, Mild steel, Iron
HAZARDOUS DECOMPOSITION PRODUCTS:	Combustion or thermal decomposition will evolve toxic and irritant vapours.
HAZARDOUS REACTIONS:	Corrosive in contact with metals

SECTION 11 - . TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀: ca. 550 mg/kg



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ACUTE DERMAL LD₅₀:	> 5000 mg/kg body weight
INHALATION LC₅₀:	0.64 mg/l (4 hours)
SKIN IRRITATION:	Moderate Irritant
EYE IRRITATION:	Slight Irritant
SKIN SENSITISATION:	Not a sensitiser

SECTION 12 - . ECOLOGICAL INFORMATION

This information is based on the active ingredient, diquat dibromide.

TOXICITY TO FISH:	Practically non-toxic to fish
TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:	Moderately toxic to aquatic invertebrates
AQUATIC INVERTEBRATES:	Daphnia magna (Water flea): EC ₅₀ = 7 mg/L, 48 h
TOXICITY TO ALGAE:	Toxic to algae
ENVIRONMENTAL FATE:	Diquat is rapidly absorbed and deactivated by soil. There is no mobility in soil or water. There is evidence of photodegradation in water and plants.

SECTION 13 - . DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

SECTION 14 - . TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Corrosive Liquid, N.O.S. (Diquat Dibromide)
HAZARD CLASS OR DIVISION:	Class 8
IDENTIFICATION NUMBER:	UN 1760
PACKING GROUP:	PG III

SECTION 15 - . OTHER INFORMATION

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.