

# SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

Print date: 19/09/2024

## 1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

<b>Product name:</b>	ADAMA PARAQUAT
<b>Active Ingredient:</b>	Paraquat 200 g/L
<b>Registration number:</b>	L11184
<b>Recommended use of the chemical and restrictions on use</b>	Herbicide  Due to severe or irreversible adverse effects on human health or the environment, this remedy may only be sold to and used by a registered pest control operator, or by someone under the supervision of a registered pest control operator, and only for those uses covered by the pest control operator's scope of registration, and only as directed on the label.
<b>Registration holder:</b>	<b>ADAMA South Africa (Pty) Ltd</b> Ground Floor, Simeka House The Vineyards Office Estate, 99 Jip de Jager Drive Bellville 7530
<b>Phone number:</b>	+ 27 21 982 1460
<b>Emergency phone number(s):</b>	Griffon Poison Information Centre: +27 (0)82 446 8946 Tygerberg Poison Information Centre: +27 (0)861 155 5777 SPILL TECH®: +27(0)86 100 0366; +27 (0)83 253 6618

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Hazard Class	Category	Hazard Statement Number
Acute Toxicity, Oral	Category 4	H302
Acute Toxicity, Dermal	Category 3	H311
Acute Toxicity, Inhalation	Category 2	H330
Skin Corrosion/Irritation	Category 2	H315
Serious Eye Damage/Irritation	Category 2	H319
Specific target organ toxicity – Single	Category 3	H336
Specific target organ toxicity – Repeated	Category 1	H372
Aquatic Toxicity - Acute	Acute 1	H400
Aquatic Toxicity - Chronic	Chronic 1	H410

### GHS Label elements, including precautionary statements:



### Signal word:

Danger

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

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Print date: 19/09/2024

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### **Hazard statement(s):**

H302: Harmful if swallowed  
H311: Toxic in contact with skin  
H330: Fatal if inhaled  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H336: May cause drowsiness or dizziness  
H372: Causes damage to organs.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

### **Precautionary statement(s):**

P260: Do not breathe dust/fume/gas/mist/ vapours/spray. (H330)  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.(H317)(H336)  
P264: Wash body thoroughly after handling. (H302) (H315)  
P264+P265: Wash hands thoroughly after handling. Do not touch eyes.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves.  
P284: [In case of inadequate ventilation] wear respiratory protection.  
P301+P317: IF SWALLOWED: Get medical help.  
P302+P352: IF ON SKIN: Wash with plenty water.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P316: Get emergency medical help immediately.  
P317: Get medical help.  
P319: Get medical help if you feel unwell.  
P321: Specific treatment (see first aid instruction on this label)  
P332+P317: If skin irritation occurs: Get medical help  
P333 + P317: If skin irritation or rash occurs: Get medical help  
P337+P317: If eye irritation persists: Get medical help. If skin irritation or rash occurs: Get medical help  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P391: Collect spillage.  
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

### **Other hazards which do not result in classification:**

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

Print date: 19/09/2024

No data available

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Classification
Paraquat dichloride	1910-42-5	27.6	Acute Toxicity, Oral, Category 3. Acute Toxicity, Dermal, Category 3. Acute Toxicity, Inhalation, Category 2. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. Specific target organ toxicity – Single: Category 3 Specific target organ toxicity – Repeated: Category 1 Aquatic Toxicity, Acute, Category 1. Aquatic Toxicity, Chronic, Category 1.
Geronol MP900-W	85117-50-6 9016-45-9	12	Acute Toxicity, Oral, Category 4. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. Aquatic Toxicity, Acute : Category 3. Aquatic Toxicity, Chronic, Category 2.
Emetic PP796	27277-00-5	0.046	Acute Toxicity, Oral, Category 3. Acute Toxicity, dermal: Category 4. Aquatic Toxicity, Acute: Category 3. Aquatic Toxicity, Chronic, Category 3.
Dye	3844-45-9	0.046	Acute Toxicity, oral: Category 4. Acute Toxicity, dermal: Category 4. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. Aquatic Toxicity, Chronic, Category 3.

### 4. FIRST AID MEASURES

#### Description of necessary first aid measures

Ingestion:

Immediate medical attention is required. Immediate medical attention is required. If available, give an adsorbent such as activated charcoal, bentonite or Fuller's Earth. Call a poison control center or doctor immediately for treatment advice. Do not give anything by mouth to an unconscious person.

SKIN contact: Flush area with large quantities of water.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If eye irritation or redness persists, see an

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

Print date: 19/09/2024

ophthalmologist.

**INHALATION:** Move person to fresh air. The odor of this product is from the stenching agent, which has been added, not from the paraquat. If person is not breathing, Call a poison control center or doctor for further treatment advice.

**Advice to doctors:**

No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

**Antidote:**

No specific antidote.

### **Most important symptoms/effects, acute and delayed**

The most important known symptoms and effects are described in section 11.

### **Indication of immediate medical attention and special treatment needed:**

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

## **5. FIRE FIGHTING MEASURES**

### **Suitable extinguishing media:**

Carbon dioxide, dry chemical powders, foam and water spray.

### **Special hazards arising from the chemical:**

The material does not burn or burns with difficulty. It is not explosive.

### **Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus with full face-piece and full-length protective clothing, boots and chemical impermeable gloves, should the chemical be involved in a general fire. Toxic fumes may be given off in fire. No unprotected person should be allowed in the vicinity. Avoid contamination of surrounding vegetation.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures:**

Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

### **Environmental precautions:**

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

### **Methods and materials for containment and cleaning up:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling:**

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

Print date: 19/09/2024

Advice on protection against fire and explosion.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Conditions for safe storage, including any incompatibilities:**

Keep away from heat and sources of ignition

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** HDPE plastic containers.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Appropriate engineering controls:**

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment:**

When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

For emergency conditions, use an approved positive pressure self-contained breathing apparatus. The respirator should contain an organic vapor sorbent.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color etc.):</b>	Liquid
<b>Odor:</b>	Strong; pungent; obnoxious
<b>Odor threshold:</b>	Not available
<b>pH:</b>	4.0-7.0
<b>Melting point/freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	1.08 g/L
<b>Solubility(ies):</b>	Not available
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

Print date: 19/09/2024

### 10. STABILITY AND REACTIVITY

**Reactivity:**

Stable under normal use and storage conditions.

**Chemical stability:**

Stable under normal conditions

**Possibility of hazardous reactions:**

Stable under normal conditions

**Conditions to avoid:**

Stable in acidic and neutral solution. Decomposed by alkali and in the presence of U.V. light. Compound inactivated by adsorption onto inert clay.

**Incompatible materials:**

Store only in the original container.

**Hazardous decomposition products:**

Combustion products of dry material: Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride; possible trace amounts of phosgene, nitrogen oxides, ammonia and other toxic and noxious fumes.

### 11. TOXICOLOGICAL INFORMATION

**Acute health effects:**

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

**Numerical measures of toxicity:**

Acute oral LD50:	332.8 mg/kg
Acute dermal LD50:	956 mg/kg
Acute inhalation LC50:	0.16mg/kg
Skin irritation:	Category 2
Eye irritation:	Category 2
Skin sensitization:	NO
Germ cell mutagenicity:	Not available
Carcinogenicity:	No evidence of carcinogenic potential
Reproductive toxicity and Developmental toxicity:	Not available
Specific target organ toxicity (single exposure):	Category 3
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	Category 1
Aspiration hazard:	Not available

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity:

Acute toxicity to Fish, slightly toxic to fish

Acute toxicity to Bird, slightly toxic to birds

Acute toxicity to Bee, practically non-toxic to bees

Acute toxicity to earthworms and soil micro-organisms: Earthworms: >1380 mg/kg soil.

#### Persistence and degradability:

Paraquat is rapidly absorbed and de-activated by soil. There is no mobility in soil or into ground water.

Paraquat does not bioaccumulate.

#### Bio accumulative potential:

No evidence of bioaccumulation

#### Mobility in the soil:

No data available

#### Other adverse effects:

No data available

### 13. DISPOSAL CONSIDERATIONS

#### Safe handling of waste residues and disposal methods:

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Dispose of empty and cleaned packaging safely.

Follow advice on product label and/or leaflet.

### 14. TRANSPORT INFORMATION

**UN Number:** 3082

**Road Transport ADR/IRD:**

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.

**Maritime Transport IMDG/IMO:**

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

**Marine Pollutant (Y/N):** yes

**Air transport IATA/ICAO:**

Class: 9

Packaging group: III

## SAFETY DATA SHEET: ADAMA PARAQUAT

Revision date: 19/09/2024

Version 3

Print date: 19/09/2024

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.

**Special/Environmental Precautions:** None known.

### 15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

### 16. 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.

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