

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

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SAFETY DATA SHEET

“SHARDA PARAQUAT 200 SL”

1. IDENTIFICATION OF PRODUCT AND COMPANY

Name of Product: “Sharda Paraquat 200 SL”

Active Ingredient: Paraquat

Product Use: Herbicide.

Registration holder: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135.

Contact Tel. No.: 031-764-3011

Poison Centres: UNITAS Hospital – 0800-111-9900
Tygerberg Hospital – 021-931-6129
NetCare: 082911.

2. HAZARD IDENTIFICATION (Substance hazard class and category)

Active Ingredient and Formulation Health Risk: Toxic – there is a danger of severe health hazard if swallowed or inhaled. Harmful when in contact with skin. Irritating to skin, eyes and respiratory system. Corrosive.
Very toxic to aquatic organisms with possible long term effects.

3. COMPOSITION AND INFORMATION ON INGREDIENTS (For each hazardous substance)

3.1 Active Ingredient: Paraquat

Chemical Name: 1,1'-dimethyl-4,4'-bipyridinium.

Chemical Formula: C₁₂H₁₄Cl₂N₂

CAS No.: 1910-42-5

3.2 Mixture

Principal Components: An aqueous solution containing emetic, stench agent, surfactant and dye.

Components contributing to risk: Paraquat

Concentration: 200 g per ℓ

UN No.: 2922

4. FIRST AID MEASURES

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Symptoms of Poisoning: (Immediate and delayed symptoms) Severe irritation to eyes, skin and by inhalation.

Ingestion is extremely toxic. Symptoms are vomiting, diarrhoea, abdominal discomfort and pain.

Inflammation of the mouth, throat and oesophagus resulting in difficulty in swallowing.

Kidney and liver damage may appear 1 to 3 days after exposure.

Death can be caused by delayed proliferating fibrosis of the lungs within 1 to 3 weeks after exposure.

Eye contact: Immediately rinse with copious amounts of water for at least 20 minutes. Hold the eyelids open.

Get immediate medical attention.

Skin contact: Remove contaminated clothing immediately. Rinse the contaminated skin with water and then wash with plenty of soap and water. Get immediate medical attention.

Contaminated clothing must be washed thoroughly before re-use.

Inhalation: Remove the patient from the source of contamination. Get immediate medical attention.

Ingestion: If ingested get the patient to hospital immediately. Telephone the hospital to give the estimated time of arrival so that treatment can be immediate.

Do not delay treatment.

Induce vomiting immediately.

Warnings: Immediate medical attention is essential.

Advice to doctors / physician: Rapid treatment is essential.

Refer to "Paraquat Poisoning. A practical guide to diagnosis, first aid and hospital treatment" available at major treatment hospitals and poison information centres.

Wash out stomach and test urine and gastric aspirate (if clear) for the presence of paraquat. Administer up to 1 litre of a 15% aqueous suspension of Fuller's Earth orally or via gastric tube together with a suitable purgative (200 ml of an aqueous solution of mannitol). Repeat the administration of absorbent plus purgative until the purgative is seen in the stools (between 4 to 6 hours after the start of treatment).

Do not use supplemental oxygen.

Keep the patient under observation for at least 48 hours.

Consider treating eyes with an antibiotic preparation to prevent secondary infection. Local treatment with a suitable steroid will aid resolution of granulation tissue.

Antidote: See advice to doctors above.

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards: This formulation is not combustible. However, following the evaporation of the aqueous component the residual material may burn. This will emit toxic fumes.

Extinguishing Media: Water fog or a fine water spray, foam or carbon dioxide or dry chemical powder. Avoid the use of a water jet or high pressure sprays.

Fire Fighting Equipment: Fire-fighters must wear full personal protective clothing and self-contained breathing equipment.

Environmental Hazard: Contain water run-off and prevent contamination of waterways.

6. ACCIDENTAL RELEASE MEASURES (Spillage)

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Personal Precautions and Protective Equipment: Wear appropriate personal protective clothing (eye protection, overall, rubber gloves and chemical resistant boots). Wear a respirator.

Emergency Procedures: Absorb the spillage with sand, sawdust or similar absorbent material.
Place contaminated absorbent material in marked drums for disposal according to regulations.

Environmental Precautions: Contain water run-off and prevent contamination of waterways.

Refer to Section 13 for disposal of spilled material.

7. HANDLING AND STORAGE

Read the product label before use.

Good industrial practice in housekeeping and personal hygiene should be followed at all times when handling this product. Areas for handling and storage should be well ventilated.

Handling:

Avoid contact with eyes and skin.

Do not breathe spray mist.

Do not eat, drink or smoke while handling this product.

Wash hands and exposed skin thoroughly after handling or contact with this product.

Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water.

Refer to Section 13 for disposal of rinse water.

Observe all safeguards on the label as to cleaning and destruction of the container.

Storage:

Store in a dry well ventilated place protected from sunlight and humidity.

Keep out of reach of children, uninformed persons and animals.

Store away from food, drink, seed and animal feed.

Store only in the original labelled container.

Minimum Shelf Life: 2 years.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Clothing

To reduce personnel exposure to this product, it is recommended to use appropriate personal protective clothing when handling this product.

Wear respiratory protection when handling and spraying this product.

Hand Protection: wear chemical resistant gloves.

Eye Protection: wear eye protection when handling and spraying this product.

Skin and Body Protection: wear a long-sleeve overall, boots and gloves.

Exposure Control Parameters

Time Weighted Average (TWA): paraquat, 8 hour TWA 0.08 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES OF PRODUCT

These are typical data based on tests but may vary from sample to sample. These typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

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Appearance, Colour	Blue or Dark Green
Form	Liquid
Odour	Characteristic
pH	4.1
Flash Point	Not flammable
Flammability	Not flammable
Boiling Point	102 °C
Decomposition Temperature	> 276 °C
Compatibility	Paraquat is incompatible with alkaline substances and reducing agents.
Density	1.077
Solubility	Paraquat is almost insoluble in water.
Viscosity	243.6 cP
Volatility	Paraquat is not volatile.
Corrosivity	Paraquat is corrosive to most metals.

10. STABILITY AND REACTIVITY

Stability: Paraquat is stable under ambient conditions. It is not stable under alkaline conditions. It decomposes in ultra violet light.

Reactivity Hazards: Combustion and thermal degradation can produce toxic vapours.

Incompatibility: Alkaline media.

Conditions to Avoid: Corrosive to metals.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and health professionals.

Data obtained on this and similar products and components are summarised below.

Acute Oral Toxicity: Rat, LD50: 300-2 000 mg/kg body weight

Acute Dermal Toxicity: Rat, LD50: > 2 000 mg/kg body weight

Skin Irritation/Corrosion: Rabbit, This formulation is not an irritant. However, prolonged exposure can result in irritation.

Eye Irritation/Damage: Rabbit, This formulation is a Class III eye irritant.

Skin Sensitization: Guinea Pig, This formulation is a skin sensitizer.

Mutagenicity: Paraquat is not mutagenic.

Carcinogenicity: Paraquat is not carcinogenic.

Toxicity to Reproduction and/or Fertility: Paraquat does not cause birth defects in mice, rabbits and rats.

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Developmental Toxicity / Teratology: Paraquat is not developmental toxin.

Likely Routes of Exposure: Inhalation, Eyes and Ingestion.

Symptoms of Exposure: (Immediate and delayed effects) See Paragraph 4 above.

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and environmental specialists.

Data obtained on this and similar products and components are summarised below.

Aquatic Toxicity, Algae and/or Aquatic Plants: High rates can inhibit photosynthesis.

Aquatic Toxicity, Fish: Moderately toxic to fish.

Aquatic Toxicity, Invertebrates: Severe to moderately toxic to aquatic invertebrates.

Arthropod Toxicity, Honey bee: Not toxic.

Avian Toxicity: Moderately toxic to birds.

Dissipation, Soil: Rapidly absorbed and bound by soil.

Dissipation, Water: Photodegradation in aqueous solution. Unlikely to contaminate ground water.

Soil Organism Toxicity, Micro-organisms: Degraded by certain soil micro-organisms.

13. DISPOSAL CONSIDERATIONS

Product

Recycle if appropriate equipment and/or facilities are available.

Burn only in controlled high temperature incinerator .

Dispose of as hazardous industrial waste.

Keep out of drains, sewers, ditches and water ways.

Follow all local / regional / national / international regulations.

Containers

Triple or pressure rinse empty containers.

Pour rinse water into spray tank; spray on target area.

Store for collection by approved waste or recycling disposal service.

Dispose of as non-hazardous industrial waste.

Do not use containers for any other purpose.

Follow all local / regional / national / international regulations.

14. TRANSPORT INFORMATION

For safe transport of hazardous substances apply appropriate local codes, classifications and regulations.

Road, Air and Marine Transport

UN No.: UN 2922

Packaging Group: III

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UN Shipping Name: Corrosive Liquid, Toxic, N.O.S., (Contains Paraquat).

Class – Primary: 8 Corrosive.

Class – Subsidiary: 6.1 Toxic Substance.

Marine Pollutant: Yes.

Special Transport Precautions:

15. REGULATORY INFORMATION

RSA: Registration Number L , Act Number 36 of 1947.

SEARCH: Registration in the following countries –

RSA Classification: Group II (Yellow, Hazardous)

16. OTHER INFORMATION

The information presented is not necessarily exhaustive but is regarded as representative. These data are presented in good faith and are believed to be correct. No representation as to the completeness or accuracy of these data is made. No responsibility for damages of any nature whatsoever resulting from the use of or reliance upon this information will be accepted. In the event of any uncertainty, consult the supplier before use.
