



SAFETY DATA SHEET (SDS)

((In accordance with GHS ST/SG/AC.10/30/Rev.7 and SANS ISO 110141))

MARIQUAT

Issue Date	06/2020
Revision Date	2023
SDS Nr.	MM/MQ405

Section – 1 PRODUCT AND COMPANY IDENTIFICATION

Product name : Mariquat
Product Code : Act5 GNR529/289578/040/0868
Recommended use : Agricultural Disinfectant
Supplier : Metson Manufacturing CC
P.O. Box 1005, Cresta, 2118
Gauteng, South Africa
Emergency Telephone Number : 0861 Metson (638 766)

Section 2 - HAZARDS IDENTIFICATION

Hazard Class	Hazard Category	Hazard Statement	Hazard Code	Signal Word
Acute toxicity, oral	4	Harmful if swallowed	H302	Warning
Skin corrosion/irritation	1A, 1B, 1C	Causes severe skin burns and eye damage	H314	Danger
Sensitization, skin	1, 1A, 1B	May cause an allergic skin reaction	H317	Warning
Serious eye damage/eye irritation	1	Causes serious eye damage	H318	Danger
Acute toxicity, inhalation	3	Toxic if inhaled	H331	Danger
Sensitization, respiratory	1, 1A, 1B	May cause allergy or asthma symptoms or breathing difficulties if inhaled	H334	Danger
Specific target organ toxicity, single exposure; Respiratory tract irritation	3	May cause respiratory irritation	H335	Warning
Hazardous to the aquatic environment, acute hazard	1	Very toxic to aquatic life	H400	Warning
Hazardous to the aquatic environment, long-term hazard	2	Very toxic to aquatic life with long lasting effects	H411	



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Section 3 – COMPOSITION / INFORMATION ON COMPONENTS

Substance / preparation : Preparation
Chemical nature : Seaweed Extract
Hazardous components:-

Chemical Name	CAS No.	Concentration
di-n-decyl dimethylammonium chloride	7173-51-5	11-12%
Non Disclosed Ingredients		82-89%

Ingredients not identified are confidential or non- hazardous. Values on SDS are not product specifications.

Section 4 - FIRST AID MEASURES

Eye Contact : Wash with copious amount of water for several minutes. If irritation persists contact physician.

Skin Contact : Wash thoroughly with soap and water after removing contaminated clothing.

Ingestion : Do not induce vomiting. Place person in recovery position
Contact physician immediately.

Note to Physician : None

Section 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media : Use media appropriate for the surrounding fire.

Special protective equipment : Normal bunker gear.

Specific hazards : Under thermal decomposition product may emit toxic fumes.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid contact with eyes.

Environmental precautions : Avoid run-off of undiluted material into water courses.

Methods for cleaning up : Small quantities – Collect spill and containerize. (may use sand)
Wash spill area with water.
Large quantities – Dispose waste according to the local regulations.



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Section 7 - HANDLING AND STORAGE

- Safe handling advice** : Prevent skin or eye contact. Avoid getting the product on you or in you. Wash hands after handling. Do not eat or drink while handling the product.
- Storage conditions** : Do not store with food, feed or other materials for human or animal consumption. Keep container tightly closed. Store in a well ventilated area.

Section 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

- Exposure limits** : None
- Personal protection equipment** :
- Eye protection** : Not required under normal conditions. Splash guard goggles recommended if splashing or aerosol conditions exist.
- Skin and body protection** : Protective Gloves - Not required under normal conditions. Recommended for workers with dermatitis.
- Protective measures** : Not required under normal conditions. If eye or skin contact can occur washing facility for eyes and skin should be available nearby.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Clear to light yellow
- Odour** : Neutral
- Initial boiling point** : Not determined
- Flash point** : N/A
- pH** : 5-8
- Specific gravity** : 0.90-1.02 kg/l
- Water solubility** : Water Soluble

Section 10 – STABILITY AND REACTIVITY

- Conditions to avoid** : None
- Materials to avoid** : Avoid contact with strong alkaline materials.
- Hazardous decomposition products** : If involved in a fire oxide of carbon, sulfur, nitrogen and metal fumes may be generated.
- Hazardous polymerization** : Will not occur.



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Section 11 - TOXICOLOGICAL INFORMATION

LD50 Acute oral

Eye irritant

Arsenic pentoxide	: Refer to risk statement in section 15
Chromium trioxide	: Refer to risk statement in section 15
Cupric oxide	: Refer to risk statement in section 15

Skin irritant

Arsenic pentoxide	: Refer to risk statement in section 15
Chromium trioxide	: Refer to risk statement in section 15
Cupric oxide	: Refer to risk statement in section 15

Carcinogen

Arsenic pentoxide	: Refer to risk statement in section 15
Chromium trioxide	: Refer to risk statement in section 15
Cupric oxide	: Refer to risk statement in section 15

Acute exposure symptoms

Arsenic pentoxide	: Refer to risk statement in section 15
Chromium trioxide	: Refer to risk statement in section 15
Cupric oxide	: Refer to risk statement in section 15

Section 12 - ECOLOGICAL INFORMATION

Persistence / degradability

Arsenic pentoxide	: Refer to risk statement in section 15
Chromium trioxide	: Refer to risk statement in section 15
Cupric oxide	: Refer to risk statement in section 15

Ecotoxicity

Arsenic pentoxide	: Refer to risk statement in section 15
Chromium trioxide	: Refer to risk statement in section 15
Cupric oxide	: Refer to risk statement in section 15

Section 13 – DISPOSAL CONSIDERATIONS

Product : Dispose according to the local regulations.

Containers : Dispose according to the local regulations.

Contaminated packaging : Dispose according to the local regulations.

Section 14 – TRANSPORT INFORMATION

Non - Dangerous



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Section 15 – REGULATORY INFORMATION

National legislation (South Africa)

Hazardous substances	: Non allocated
Transport	: National Road Traffic Act, Act 93 of 1996 – Chapter VII of the regulations.
Waste disposal	: National Water Act, Act 36 of 1998

Other regulations

Hazard Symbols	: None
Risk phrases	: H302 – Harmful if swallowed H314 – Causes severe skin burns and eye damage H317 – May cause an allergic skin reaction H318 – Causes serious eye damage H331 – Toxic if inhaled H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 – May cause respiratory irritation H400 – Very toxic to aquatic life H411 – Very toxic to aquatic life with long lasting effects
Safety phrases	: None

Section 16 – OTHER INFORMATION

16.1 This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarises our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Metson Manufacturing cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how their user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that and appropriate risk assessment can be made, the user should contact Metson Manufacturing.

16.2	Original	: June 2020
	Last Revised	: June 2023

015
12/2015
Future Revision 2024

End of SDS

Key:

FKM	: Fluoroelastomer
PVC	: Polyvinyl chloride
NIOSH	: National Institute for Occupational Health and Safety



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Label elements

GHS (Pictogram)	GHS (Classification)	Protective Clothing
	H302 – Harmful if swallowed H314 – Causes severe skin burns and eye damage H317 – May cause an allergic skin reaction H318 – Causes serious eye damage H331 – Toxic if inhaled H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 – May cause respiratory irritation H400 – Very toxic to aquatic life H411 – Very toxic to aquatic life with long lasting effects	