

MATERIAL SAFETY DATA SHEET



Description: SAF TREAT

Revision Number: 00

Document Number: MSDS T003

WATER TREATMENT FOR INDUSTRIAL USE

GENERAL

SAF-TREAT is a quaternary ammonium compound for the treatment of water in industrial reservoirs, cooling systems, etc.

FORMULATION

SAF-TREAT is based on quaternary ammonium compounds, fungicides and non-ionic surfactants.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Clear blue liquid
pH (10%)		6.00 – 9.00
Density	g/cm ³	0.980 – 1.020

PROPERTIES

- * Reduces the need for chlorine required in combating algae.
- * Much more stable than chlorine.
- * Helps prevent the blocking of water systems.
- * Liquid format dissolves easily in water.

APPLICATION

- * Shock treatment - 1: 10 000
- * Light treatment - 1: 25 000
- * Maintenance treatment - 1: 60 000 weekly

NOTE

SAF-TREAT is not recommended for use in fishponds or drinking water.

THE RECOMMENDATIONS CONTAINED HERE-IN ARE BASED ON LABORATORY TESTS AND INFIELD USE EXPERIENCE AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

Prepared by: Sabelo Dladla
Reviewed by: Zanele Mthimunye
Status: Issued

Approved by: Doug Cutter
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1. Product Identification

Trade Name	SAF- TREAT	Product Code: T003
Chemical Family	QAC	
Chemical Name	Formulated chemical	
Product Use	Water treatment for industrial use	
UN Number	3082 (Miscellaneous substances)	

2. Composition

CAS No.	Hazardous Components	Approximate %
68424-85-1	QAC	<25
EEC classification	Irritant (xi), SAF-TREAT	
R Phrases	R36/38, SAF-TREAT	

3. Hazards Identification

Main Hazard	Irritant
Fire	Non-flammable
Skin contact	Irritant. Avoid contact with skin
Eye contact	Irritant. Avoid contact with eyes
Ingestion	Do not ingest

4. First Aid Measures

Inhalation	Move patient to fresh air.
Skin contact	Rinse area well with soap and water. If necessary, use a hand-cream to replenish moisture.
Eye contact	Flush eyes with water running for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If irritation persists, seek medical attention.
Ingestion	Rinse mouth with water, and allow patient as much water as possible. If large quantities have been swallowed obtain medical attention.

5. Fire Fighting Measures

Extinguishing media	Product non-flammable. Use extinguishing agents for surrounding fire.
Special hazard	None known
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent when extinguishing fires.

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6. Accidental Release Measures

Personal precaution	Avoid prolonged skin contact with the concentrate. Wear PPE.
Small spills	Remove excess with absorbent material and flush residue with plenty of water.
Large spills	Dyke ahead of liquid spill for later disposal. Prevent the discharge of large amounts of concentrated product into sewerage, and watercourses.

7. Handling & Storage

Handling	Normal handling procedure to minimise personal exposure.
Storage	Store in a cool dry area. Keep containers sealed. No special requirements.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
If the specific application may result in splashing, safety goggles (VNC11 – supplier – MSA) should be supplied.
If prolonged or frequent contact is expected, NEOPRENE gloves (Technic 420 – supplier – MSA) should be utilised

9. Physical and Chemical Properties

Appearance	Clear blue liquid
pH	6.00 – 9.00
Density	0.980 – 1.020 g/cm ³
Solubility (water)	100 %

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong acids and strong oxidizing agents.
Hazardous decomposition products	Toxic fumes may be liberated on decomposition.

11. Toxicological Information

Toxicity	Acute oral : LD50 : 0.08 mg/kg
Carcinogenicity	No evidence of carcinogenic properties
Mutagenicity	No evidence of mutagenetic effects
Teratogenicity	No evidence of teratogenic effects
Reproductive hazard	Not expected to impair fertility

12. Ecological Information (based on QAC)

Fathead minnow	LC50: 0.2 mg/l , 96hr exposure time
Daphia Magna	48 hr bioassay LC50: 0.01mg/l
Bacterial	IC50: 7.75mg/l, 3hr exposure time

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Biodegradability	Biodegradation: > 90% /20days
Bio accumulation	No possibility of bioaccumulation – completely water soluble and biodegradable

13. Disposal Considerations

Disposal method	Dispose as per local agreed government method.
Disposal of packaging	Recycle or wash thoroughly and re-use the container.

14. Transport Information

UN Number	3082
Substance identity no	T003
ADR/RID class	Class 9: Irritant liquid
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	IMDG Class 9 Irritant liquid
IATA Classification	Class 9 Irritant liquid

15. Regulatory Information

EEC-hazard classification	Irritant (Xi)
Risk phrases	R36/38
Safety phrases	S24/25, S36

16. Other Information

Reference: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw's)
Issued by: Sabelo Dladla
EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product and is intended only as a guide to the appropriate precautionary handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information contained in this MSDS sheet.

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APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
16/07/2014	Technical Manager	New Issue	MSDS T003	00

CONTROLLED DOCUMENT

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