



Company Details:

Waterwell Projects (PTY) LTD

Reg No. 2001/018862/07

Waterwell Projects (PTY) LTD
Unit 4/5 Megazone Park
Hertford Junction R512
Lanseria
1748

Tel: 011 300 9917/8 or 073 077 0973

Fax: 086 605 9360

Poison Centre: **+27 21 689 5227**

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

a) Identification of the substance or preparation :

- | | |
|-------------------------|---------------------------------------------|
| 1.1 Commercial name : | Waterwell Sta Blue (packed 2L,20L) |
| 1.2 Chemical name : | (Active) Poly quarternary ammonium chloride |
| 1.3. Chemical formula : | Mixture |
| 1.4. CAS No : | |
| 1.5. EEC No : | |
| 1.6. UN no: | Not Regulated |
| 1.7. Hazchem code: | 2Z |

b) Information of Importer/ Packer::

Zodiac Pool Care South Africa (PTY) LTD
Private Bag X127
Halfway House 1685
Tel: 011 300 9917/8 or 011 237 3900
Fax: 086 605 9360 or 011 314 5225

2. MATERIAL IDENTIFICATION ;

CAS No : See Section 2 – CHEMICAL OR HAZARDOUS COMPONENTS
Molecular formula : Mixture
Chemical name : (Active) Poly quarternary ammonium chloride

3. HAZARD IDENTIFICATION

Main Hazard: Irritating to the eyes

Flammability: NFPA Rating: 1

Chemical Hazard: Irritant

Biological Hazard: May damage upper respiratory tract, skin, eyes.

Reproduction Hazard: No data available.

Eye Effects- eyes: Irritating to eyes.

Health Effects – skin: May cause mild irritation on the skin.

Health Effects – ingestion: May be harmful. No data is available on human exposure.

Health Effects – inhalation: May cause irritation to mucous membranes and the lungs.

Carcinogenicity: Refer Section 11 : Toxicological Information

Mutagenicity: Refer Section 11 : Toxicological Information

Neurotoxicity: Refer Section 9 : Physical and Chemical Properties

4. FIRST AID MEASURES

First aid :

Skin contact :

Wash exposed area with plenty of water. Repeat washing. Remove contaminated clothing and wash thoroughly before re-use. If irritation persists, consult a physician.

Eye contact :

Flush immediately with copious amounts of tap water or normal saline solution for a minimum of 15 minutes. Take exposed individual to a physician, preferably an ophthalmologist, for further evaluation.

Inhalation :

If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek medical attention immediately.

Ingestion :

DO NOT INDUCE VOMITING: Give copious amounts of water or milk first. Irrigate the oesophagus and dilute stomach contents by slowly giving water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product, seek medical assistance immediately.

Medical treatment :

No product specific antidote is known. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptoms.

5. FIRE AND EXPLOSION INFORMATION

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical powder.

Special Hazards: None known

Protective clothing: Body-protective clothing

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Rubber gloves and safety glasses or goggles required.

Eye wash fountains in the work place are strongly recommended. Body-protective clothing and shoes are recommended.

Environmental Precaution: Do not discharge concentrated, undiluted product into lakes, streams, ponds, estuaries, oceans and other waters.

Spills: Liquids: Dam area to prevent spill from spreading. Clay, soil or commercially available absorbents may be used to recover any material that cannot be recovered as pure product. Liquids/Solids/Powder: Minimise adverse effects on the environment. Recover as

much as possible of the pure product into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Dispose of in an approved landfill.

7. HANDLING AND STORAGE

Suitable Material: The concentrated product can be handled and stored in stainless steel, aluminium, and most plastic materials of construction.

Handling/Storage

Precautions: The handling precautions for this product are based on the characteristics of the neat product unless otherwise specified. Store in a cool dry place. Rubber gloves and safety goggles are required. Body-protective clothing and safety shoes are required. Eye-wash fountains in the work place are strongly recommended.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None

Engineering Control Measures: Provide adequate ventilation in the work place.

Personal Protection –

Respiratory: Use respiratory protection where misting may occur.

Personal Protection – Hand: Rubber gloves

Personal Protection – Eye: Safety goggles are required.

Personal Protection – Skin: Body-protective clothing and safety shoes are recommended.

Where splashing can occur, a protective face-shield is required.

Other Protection: Eye wash fountain in the workplace is strongly recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow liquid

Odour: Slight

PH: 4.0 – 7.0 (1% soln.)

Boiling Point: >100C

Melting Point: Not available

Flash Point: 100C (Tagliabue C.C.)

Flammability: NFPA Rating: 1

Autoflammability: Not available

Explosive properties: Not available

Oxidising properties: Not available

Vapour Pressure: Not available

Density: 1.18 – 1.20 g/ml

Solubility in Water: Completely soluble in water

Solubility-solvent Not available

Solubility Coefficient Not available

Neurotoxicity Not available

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal conditions of use and storage.

Incompatible materials: Anionic Polymers

Hazardous decomposition products: Carbon monoxide may be released on burning

11. TOXICOLOGY INFORMATION

Acute Toxicity: Oral LD50 :1 865 mg/kg Dermal LD50 : > 2 000 mg/kg

Skin and Eye Contact: Irritating to eyes

Chronic Toxicity The effects of chronic exposure have not been evaluated

Carcinogenicity: Not listed in any of OSHA standard, section 1910.1200 sources as carcinogenic. Not tested by Buckman Laboratories, Inc.

Mutagenicity: No data available

Reproduction Hazard: No data available

12. ECOTOXICOLOGY AND ECOLOGY INFORMATION

Aquatic Toxicity – Fish: 96 Hr. LC50 : Bluegill sunfish = 0.28 mg/L ; 96 Hr. LC50: Rainbow trout = 0.0709 mg/L

Aquatic Toxicity: No data available

Aquatic Toxicity – algae No data available

Avian Toxicity: No data available

Biodegradability: Not tested by Buckman Laboratories

Bio-Accumulation: Not tested by Buckman Laboratories

Mobility: Not tested by Buckman Laboratories

German wgk: 1 = low hazard to waters

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose in accordance with local/national Regulations governing the disposal of waste materials.

Disposal of Packaging: Dispose of drums through a registered drum re-conditioning company.

Dispose of packaging other than drums, e.g. Flexi-bags, through a registered waste disposal company in an approved landfill.

14. TRANSPORTATION

UN No.: Not Regulated
Substance Identity No.: Not Regulated
Dot Class Not Regulated
ADR/RID Class: Not Regulated
ADR/RID Item Number: Not applicable
ADR/RID Hazard Identity Number: Not applicable
IMDG – Shipping Name: Not applicable
IMDG – Page: Not applicable
IMDG – Class: Not Regulated
IMDG – Packaging Group: III
IMDG – Marine Pollutant: Not available
EMS No.: Not applicable
MFAG Table No. : Not applicable
IATA – Shipping Name: Not applicable
IATA – Class: Not Regulated
IATA – Subsidiary risk(s): None
ADNR – Class Not Regulated
UK – Description: Not applicable
UK – Emergency Action Class: Not Regulated
UK – Classification: Not Regulated
Tremcard No.: BSN1055

15. REGULATORY INFORMATION

EEC – Hazard Classification: Not Listed
Risk Phrases: R36
Safety Phrases: S26
National Legislation: None known
FDA Approvals: 176.170

16. FURTHER INFORMATION

No further information available.

The information herein is given in good faith and to the best of our knowledge at the current date. The accomplishment of the instructions herein does not exempt the user from following the legal and administrative regulations relative to product, environmental safety and hygiene, which are user's own responsibility. In case of mixture with other substances, ensure that other risks are not generated.

Date of Revision: 20 May 2002