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Safety Data Sheet

SECTION 1 – IDENTIFICATION

1.1 Product **BOS-S50HP**

1.2 Uses Scale Inhibitor

1.3 Manufacturer & Supplier Information

Blue Reef Water Solutions (Pty) Ltd
2096 Prince McWayzeni Drive, Reunion, 4133
KZN, Republic of South Africa

Date SDS prepared 1 January 2018

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SECTION 2 – HAZARD IDENTIFICATION

2.1 Classification

Non-Hazardous

2.2 Labelling

Identification : BOS-S50HP

UN No. : Non-Hazardous

Classification : Non-Hazardous

2.3 Other Hazards

Wear all recommended Personal Protective Equipment and Handle All Chemical Substances with Care

SECTION 3 - HAZARDOUS INGREDIENT INFORMATION

3.1 Product Type polymeric inorganic mixture

3.2 Hazardous Types

Non-Hazardous Mixture of polymeric agents.

SO₂ can be released if acidified

1 January 2018– Revision 1 – BOS-S50HP – 3 Pages

SECTION 4 – FIRST AID

4.1 – Measures

Inhalation Not an irritant. If found to be an irritant, move to well aerated area.

Skin Contact May cause skin irritation and minor burns. Wash with copious amounts of water. Obtain medical attention.

Eye Contact Will cause severe irritation and burns. Flush eyes immediately with copious amounts of water & obtain medical attention.

Ingestion If swallowed do not induce vomiting. Obtain immediate medical attention.

4.2 Most Important Symptoms

Ingestion & Eye Contact

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Product is non-flammable. Containers of HDPE and bags will be flammable. Water spray jets and foams are adequate.

5.2 Special Hazards

Upper & Lower Flammability Limits N/A

Auto Ignition N/A

5.3 Advice for Firefighting

Wear full protective equipment with self-contained breathing apparatus due to gases/vapours that may result from product and container degradation. Eg. SO₂, CO₂, CO etc.

5.4 Additional Information

Prevent product run off into storm water

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions & PPE

Follow internal emergency procedures. Wear

Eye Protection, Gloves, Overall and Safety Boots/Shoes.

6.2 Environmental Precautions Prevent product run off to storm and surface water

6.3 Containment Methods Use suitable damming off/absorbant material to prevent run off. Sweep up and dispose of in accordance with local municipal regulations.

Advise authorities accordingly in case of serious ground and water contamination.



SECTION 7 – HANDLING & STORAGE

7.1 Safe Handling Precautions

Wear PPE. Avoid unnecessary contact with product. Do not eat & drink in that area. Wash hands after handling. Avoid spillage during transfer.

7.2 Storage & Incompatible Materials

Store in cool areas at maximum 2 high, separately from strong acids and oxidising agents. Avoid freezing and high temperature conditions. Crystallisation and drum swelling may occur respectively.

SECTION 8 – PERSONAL PROTECTION

8.1 Control Parameters None

8.2 Recommended Personal Protection



Wear coverall, eye-protection and rubber gloves. Avoid contact with eyes and skin. Do not ingest. Store away from feedstuffs.

SECTION 9 – PROPERTIES

9.1 Physical & Chemical Properties

Appearance Beige Powder

Odour None

Flash Pt. Not Applicable

Auto Ignition Not Applicable

25% Solution with 10% NaOH Lye added

SG @ 25°C 1.15 – 1.20

pH @ 25°C 11.0 – 12.5 neat

9.2 Other Information See Section 8

SECTION 10 – REACTIVITY & STABILITY

10.1 Reactivity Strong Acids/Oxidising Agents

10.2 Stability Stable under normal conditions

10.3 Hazardous Reactions Mixing with Strong Acids and Oxidising Agents

10.4 Conditions to Avoid Freezing & Heat

10.5 Materials to Avoid see 10.3

10.6 Hazardous Decomposition Products

Degradation of drums and product in case of fire. By-products from reaction with strong acids and oxidising agents

SECTION 11– TOXICOLOGICAL INFORMATION

(This information is based on this concentration & knowledge and toxicology of similar materials)

Powder with no caustic addition

Acute Oral : LD₅₀ Rat >5000mg/kg

Acute Dermal : LD₅₀ Rat >5000mg/kg

Acute Inhalation : N/A

Skin Irritation : Alkaline - Irritant

Eye Irritation : Alkaline – Causes Irritation

Respiratory Irritation : Mild

Sensitisation: Not a sensitizer

Repeated Dose : None expected in humans

Mutagenicity: Not mutagenic

Carcinogenicity : Not carcinogenic

Reproductive Toxicity : No fertility effects expected

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity (as 25% liquid + NaOH addition at 10%)

Zebra Fish : 344 mg/l @ 24hrs

Daphnia magna : 565 mg/l @ 96hrs

Algae : >5000 mg/l

Mobility : completely soluble in water

Degradability : biodegradable

Accumulation : not accumulative

Motility in Soil : unknown

Results of PBT & vPvB assessments : None

Other Adverse Effects : alkaline – pH increase

Further Ecological Information : alkaline

SECTION 13 – DISPOSAL CONDITIONS

13.1 Waste Treatment Methods

Dispose of product and containers in accordance with local applicable waste classifications and regulations. Contact supplier for advice.



SECTION 14 – TRANSPORT INFORMATION

- 14.1 UN No.** N/A – non-hazardous in powder form
- 14.2 UN Shipping Name** BOS-S50HP
- 14.3 Transport Hazard Class:** Nil
- 14.4 Packing Group** N/A
- 14.5 Environmental Hazard** N/A
- 14.6 Special Precautions** Keep Drums Closed
- 14.7 Additional Information** Handle Chemicals With Care

SECTION 15 – REGULATORY INFORMATION

Classification for Mixtures to EC 1272/2008

SECTION 16 – RISK & SAFETY INFORMATION

- 16.1 Indication of changes;** N/A
- 16.2 Abbreviations/Synonyms;** N/A
- 16.3 Key Literature & References;** N/A
- concentration**
- 16.4 H & EUH Phrases**
- H302 harmful if ingested
- H315 skin irritant
- H319 causes severe eye irritation



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