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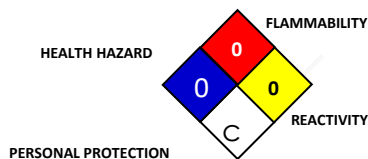
## Safety Data Sheet

### SECTION 1 – IDENTIFICATION

- 1.1 Product** BDA-S100 HPI  
**1.2 Uses** Antiscalant- Dispersant  
**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 March 2018 rev. 2 -  
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**Emergency No.** +27319107500

### SECTION 2 – HAZARD IDENTIFICATION

#### 2.1 Classification



#### 2.2 Labelling

Identification : BDA-S100 HPI  
UN No. : N/A 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 mixture  
**3.2 Hazardous Types**

Nil Hazardous – Mildly Alkaline

### 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 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. CO<sub>2</sub>, 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 Whitish Powder  
Hygroscopic  
Flash Pt. Not Applicable  
Auto Ignition Not Applicable

**20% solution m/m**

SG @ 25°C 1.05-1.10

pH @ 25°C 6.0-9.0 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 alkalis and oxidising agents

**SECTION 11– TOXICOLOGICAL INFORMATION**

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

Acute Oral : LD<sub>50</sub> Rat >5000mg/kg

Acute Dermal : LD<sub>50</sub> Rabbit >2000mg/kg

Acute Inhalation : N/A

Skin Irritation : Mildly Acidic - Irritant

Eye Irritation : Mildly Acidic – Causes Burning Sensation

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**

**Zebra Fish** : >5000 mg/l @ 24hrs

**Daphnia magna** : >250 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.** non- hazardous
- 14.2 UN Shipping Name** BDA-S100 HPI
- 14.3 Transport Hazard** not regulated
- 14.4 Packing Group** N/A
- 14.5 Environmental Hazard** Mildly Alkaline
- 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;** Mildly Alkaline
- 16.4 H & EUH Phrases**
  - H302 harmful if ingested
  - H315 skin irritant
  - H319 causes severe eye irritation



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