



Blue Reef Water Solutions (Pty) Ltd
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Safety Data Sheet

SECTION 1 – IDENTIFICATION

1.1 Product **BCI-S100C**
1.2 Uses Corrosion 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



Corrosive – Cat. 3
UN 3262

2.2 Labelling

Identification : BCI-S100C
UN No. : 3262 n.o.s. basic inorganic solid
Classification : Corrosive – 8 PG III

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 inorganic mixture
3.2 Hazardous Types
Mildly Alkaline due to hydroxyl ion formation

SECTION 4 – FIRST AID

4.1 – Measures

Inhalation Mild 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 plastic/paper 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. 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.

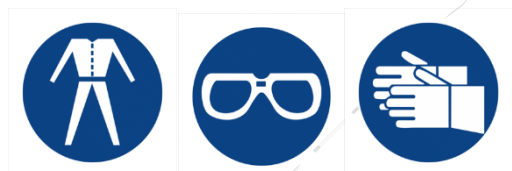
7.2 Storage & Incompatible Materials

Store in cool areas at maximum 2 high, separately from strong acids and oxidising agents. Will release SO₂ if acidified. 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 Pink Powder
Odour Minimal
Flash Pt. Not Applicable
Auto Ignition Not Applicable

25% Solution will yield following :

SG @ 25°C 1.18-1.24
pH @ 25°C 10.0 – 12.0 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 acids and oxidising agents

SECTION 11– TOXICOLOGICAL INFORMATION

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

Acute Oral : LD₅₀ Rat >5000mg/kg

Acute Dermal : LD₅₀ Rabbit > 2000mg/kg

Acute Inhalation : N/A

Skin Irritation : Alkaline - Irritant

Eye Irritation : Alkaline – Causes Burns

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% solution).

Leuciscus idis (fish) : 460 mg/l @ 96h

Water flea : 330 mg/l @ 24h

Microtox : 770 mg/l @17h

Mobility : completely soluble in water

Degradability : biodegradable to sulphate

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.

without prejudice but without warranty and subject to the exclusion of any liability.

SECTION 14 – TRANSPORT INFORMATION

14.1 UN No. 3262 n.o.s. basic inorganic solid

14.2 UN Shipping Name BCI-S100C

14.3 Transport Hazard Class 8

14.4 Packing Group III

14.5 Environmental Hazard Alkaline Material

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; refer to mildly alkaline solutions at pH values between 10 and 12.

16.4 H & EUH Phrases

H302 harmful if ingested

H315 skin irritant

H319 causes severe eye irritation



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