



Blue Reef Water Solutions (Pty) Ltd
Reg No 2013/149985/07
Tel. +27 31 910 7500
2096 Prince Mcwayzeni Drive, Reunion, Durban
PO Box 32079, Mobeni, 4060, KwaZulu-Natal, South Africa

Safety Data Sheet

SECTION 1 – IDENTIFICATION

1.1 Product **BIT-L50-HP**
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
Prepared by lab@gold-reef.co.za
Emergency No. +27319107500

SECTION 2 – HAZARD IDENTIFICATION

2.1 Classification



Corrosive – Cat. 3
UN 3266

2.2 Labelling

Identification : BIT-L50-HP
UN No. : 3266 n.o.s. basic inorganic liquid
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 polymeric mixture
3.2 Hazardous Types
CAS No. 1310-73-2 sodium hydroxide 9-11%
active.
Other 90% proprietary non-hazardous
polymeric agents.

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. 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	Dark Brown Liquid
Odour	Ammoniacal
Flash Pt.	Not Applicable
Auto Ignition	Not Applicable
SG @ 25°C	1.10-1.15

pH @ 25°C 12.5 – 13.5 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)

Acute Oral : LD₅₀ Rat 1400mg/kg

Acute Dermal : LD₅₀ Rat 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

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.

subsidiaries assume any legal liability whatsoever for the accuracy or completeness of information contained herein. Users should undertake sufficient verification and testing to determine the suitability for their own purposes of any product or information contained herein. Recommendations are given in good faith and without prejudice but without warranty and subject to the exclusion of any liability.

SECTION 14 – TRANSPORT INFORMATION

14.1 UN No. 3266

14.2 UN Shipping Name BIT-L50-HP

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 sodium hydroxide solutions at 10-20% concentration

16.4 H & EUH Phrases

H302 harmful if ingested

H315 skin irritant

H319 causes severe eye irritation

