

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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1. IDENTIFICATION OF PREPARATION AND OF COMPANY

Brand name : RED SEA**Product name :** REEF FOUNDATION B**Product category :** AQUARIUM WATER SUPPLEMENT**Product code :** R22023

Company : Red Sea Fish Pharm Ltd Free Trade Industrial Zone Eilat 88000 Israel	Red Sea Europe ZA de la St-Denis F-27130 Verneuil s/ Avre France
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Company : Red Sea Aquatics (UK Ltd) PO Box 1237 Cheddar Somerset BS279AG UK	Red Sea USA 18125 Ammi Trail Houston TX 77060 USA
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Emergency No. : As appropriate above

2. HAZARD IDENTIFICATION

Classification for supply : Not classified as a hazardous preparation.**Health / physical hazard :** None**Environmental hazard :** None**Physico-chemical hazard :** None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component	Classification	CAS No.	Conc.
Sodium carbonate	Xi – R36	497-19-8	10 – 25%
Potassium carbonate	Xn – R22, R36/37/38	584-08-7	1 – 5%

Classification symbol / letter and R phrases – Refer to section 16 where the full text of each relevant symbol / R phrase is listed

4. FIRST AID MEASURES

- General advice :** Seek medical advice and show this safety data sheet to attending medical personnel.
- Eye contact :** In case of contact with eyes, rinse immediately with plenty of flowing water for at least 15 minutes, occasionally lifting eyelids and seek medical advice.
- Skin contact :** After contact with skin, remove any contaminated clothing and wash immediately with plenty of soap and water. If any irritation occurs after this, seek medical advice. Wash contaminated clothing before re-use.
- Ingestion :** Never give anything by mouth to an unconscious person. Wash out mouth with water and obtain medical attention immediately. Do not induce vomiting, unless instructed by medical personnel.
- Inhalation :** If adverse effects (*e.g. irritation of airways, drowsiness or dizziness*) occur, remove from exposure, rest and keep warm. Seek medical advice immediately.

5. FIRE FIGHTING MEASURES

- Fire and explosive properties :** The preparation is water based and not combustible or explosive.
- Suitable extinguishing media :** Use extinguishing media suitable to the surroundings such as, Dry Chemical Powder, Chemical Foam, Water Spray and Carbon dioxide.
- Special exposure hazards :** When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapours that may cause dizziness. Wear approved self-contained breathing apparatus, protective clothing and prevent contact with skin and eyes. Avoid run-off water from entering drains though the use of barriers or sorbent materials.

6. ACCIDENTAL RELEASE MEASURES

Appropriate to size of spillage.

- Personal precautions :** Refer to section 8 of the safety data sheet for personal protection details. Avoid contact with skin and eyes. Do not breathe any vapours and keep unauthorised personnel from the spillage area.
- Environmental precautions :** Do not allow any liquid to be washed down drains or natural water courses if safe to do so. Contact authorities, water company, and waste water treatment plant as appropriate if significant contamination occurs.
- Clean-up procedure :** In the event of spillage, clean up as soon as possible. Small spills can be mopped up with a dry cloth or paper tissue. Collect larger spills with sorbent material or mixed with sand then place in a suitable container for disposal as solid waste in accordance with local or national regulations. Wash contaminated surfaces with water. In the case of a large spill follow prescribed advice in section 6 – “Environmental Precautions” and collect washings for disposal.

7. HANDLING AND STORAGE

- Handling requirements :** Handle liquids carefully taking care to avoid contact with skin and eyes, and inhalation of any mists or vapours. When handling large quantities, wear personal protective equipment as described in section 8 and good general ventilation is recommended.
- Storage requirements :** Keep only in original container. Avoid large temperature changes and store in a cool, dry, well ventilated environment away from direct sunlight. Keep containers closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

During normal non-professional use of the preparation no personal protective equipment is required. However, in case of manufacture or spillage, use as appropriate to the size of the spill.

Exposure limit values : Generally not applicable to the packed liquids due to small volumes of liquid being handled coupled with very short exposure times and packaging type.

Exposure controls : None when handling packed liquid.
For large volumes, good general ventilation is recommended. Where conditions may lead to high airborne concentrations, local exhaust ventilation may be necessary to ensure that workplace exposure limits are not exceeded.

Take measure to prevent : Spillage, skin and eye contact, and ingestion.

Personal protective equipment : For professional use, the need for personal protective equipment should be based on a workplace risk assessment. Avoid skin contact by wearing chemical resistant gloves (e.g. rubber, neoprene, nitrile) and safety goggles. Where more extensive contact may occur, wear suitable protective clothing (e.g. apron, sleeves and boots). Personal protective equipment should be chosen in consultation with the manufacturer or distributor of the equipment.

Respiratory protection : Respiratory protection is not necessary if preparation is used in accordance with manufacturer's instructions.
If required, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges.

Hand protection : Protective gloves.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection : Face shield and safety goggles.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 166 derived from it.

Skin and body protection : Protective clothing; laboratory coat, apron, arm protection etc.
Choose body protection according to the amount and concentration of the dangerous substance being used.

Hygiene measures : Handle in accordance with good hygiene and safety practices, and wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear liquid

Flash point (°C) : Not applicable

Odour : None

Flammability : Liquid is non-combustible

pH : Not determined

Oxidising properties : Not applicable

Density : Not determined

Solubility (water) : Completely soluble

Boiling point : Not determined

Other :

10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage and handling conditions.

Conditions to avoid: Long term exposure to heat and direct sunlight.

Materials to avoid : Strong Acids, Strong oxidising compounds,

Decomposition products : Carbon, Sodium and Potassium oxides may be evolved on thermal decomposition.

11. TOXICOLOGICAL INFORMATION

The preparation has not been tested for toxicological effects. Based on the known effects of the ingredients, the product is classified for human health effects as indicated;

Acute toxicity : Potassium carbonate is classified as being harmful if swallowed.

Corrosivity / Irritation : Due to the level of Sodium and Potassium carbonates present, Reef Foundation B is not classified as being an Irritant. However, may cause irritation to the eyes and skin in certain individuals, while inhalation of spray or mist could irritate the respiratory system and ingestion may irritate the linings of the mouth, throat and gastro-intestinal tract.

Sensitisation : No compounds present have been identified as having sensitising properties.

Repeated-dose toxicity : No compounds present have been identified as having repeat-dose toxicity properties.

Carcinogenicity / Mutagenicity / Reproductive toxicity : No compounds present have been identified as having carcinogenic, mutagenic and reproductive toxicity properties.

12. ECOLOGICAL INFORMATION

Ecotoxicological data has not been determined specifically for the preparation, but is not classified as toxic on the basis of the known hazards of components present;

Mobility : Though there is no specific information on the mobility of compounds in the preparation, they are soluble under normal environmental conditions in water so would also be expected to be highly mobile in soil.

Persistence and degradability : Compounds present in the preparation would be readily bio-degradable in the environment.

Bioaccumulation : No information available.

Ecotoxicity : No components in Reef Foundation B have been shown to be hazardous to aquatic organisms. However, the preparation is strongly alkaline so may be inadvertently hazardous to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

User's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Waste residues : Hazardous residues.

Safe handling of waste product : Landfill or burn in accordance with local regulations.

Disposal of product : According to Special Waste Regulations

EWC (European waste code) recommendation : 16 03 03

16 Wastes not otherwise specified in the lists

03 Off specification batches and unused products

03 Inorganic wastes containing dangerous substances

Depending on the origin and state of the waste, other EWC numbers may be applicable.

Disposal of packaging : According to Special Waste Regulations

EWC (European waste code) recommendation : 15 01 10

15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.

01 Packaging (including separately collected municipal waste).

10 Packaging containing residues of or contaminated by dangerous substances.

Depending on the origin and state of the waste, other EWC numbers may be applicable.

14. TRANSPORTATION INFORMATION

Land transport

RID/ADR hazard classification : NOT DANGEROUS GOODS
Packing group :
UN No. :
Shipping name :

Maritime transport

IMO – IMDG hazard class : NOT DANGEROUS GOODS
Packing group :
UN No. :
Shipping name :

Air transport

ICAO/IATA classification : NOT DANGEROUS GOODS
Packing group :
UN No. :
Shipping name :

15. REGULATORY INFORMATION

EEC labelling information Not classified according to CHIP (Chemical Hazard information and packaging) regulations.

Hazard symbols : None

Contains :

R phrase(s) : None

S phrase(s) : S2 Keep out of reach of children
S46 If swallowed seek medical advice immediately and show this container or label.

Other regulatory information:

16. OTHER INFORMATION

Nature of revision : Web site address updated and contact details changed in Section 1.

Based on EC directive : The classification of this product has been assessed according to the calculations given in 99/45/EC and its amendments, and regulation (EC) No.1272/2008 on classification, labelling and packaging of substances and mixtures on the basis of available information for the ingredients from supplier safety data sheets and the Existing Chemical Substances Information System found on the European Chemical Bureau website;
<http://ecb.jrc.ec.europa.eu/esis/>.

Relevant R phrases used in section 3 : Xi Irritant
Xn Harmful

R22 Harmful if swallowed
R36 Irritating to eyes
R36/37/38 Irritating to eyes, respiratory system and skin

Usage advice : This safety data sheet is provided to enable the employer / user to fulfil his duties to assess and provide information on risks in the work place as required under regional health and safety legislation.
Read accompanying information, use only in accordance to manufacturer's instructions.

Recommended uses / restrictions : Aquarium water supplement to add buffering complexes.

Other information : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage from handling or from contact with the above product.