

## SAFETY DATA SHEET

Calcium+, KH/Alkalinity & Magnesium Foundation supplements complete starter pack

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Date of issue: 06/08/2015

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier 1.1**

Product name: Calcium+, KH/Alkalinity & Magnesium Foundation supplements complete starter pack

Product code: R22006

#### **Relevant identified uses of the substance or mixture and uses advised against 1.2**

. Aquarium water supplement

#### **Details of the supplier of the safety data sheet 1.3**

Red Sea Fish Pharm Ltd Free

Trade Industrial Zone Eilat

88000

Israel

Tel: +972-9-9567107

**E-mail address of person responsible for this SDS:** [sharonr@redseafish.co.il](mailto:sharonr@redseafish.co.il)

#### **Emergency telephone number 1.4**

**Emergency telephone number (with hours of operation):** N/A

### SECTION 2: Hazards identification

#### **2.1 Classification of the substance or mixture**

Classification according to 29 CFR 1910.1200 (OSHA HCS Eye Dam. 1 H319

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP): Eye Dam. 1 H319

See section 16 for the full text of the H-statements declared above.

#### **2.2 Label elements**

Calcium+ (Foundation A)

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s):



Signal word: Warning

:(Hazard statements)

H319: Causes serious eye irritation

Precautionary Statement(s):

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing.  
P310: Immediately call a POISON Center or doctor/physician.

Labelling in accordance with Regulation 1272/2008(CLP)

Hazard pictogram(s):



Signal word: Warning

:(Hazard statement(s)

. H319: Causes serious eye irritation

Precautionary Statement(s):

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON Center or doctor/physician.

KH/Alkalinity (Foundation B)

Labeling according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s):



Signal word: Warning

:(Hazard statements)

H319: Causes serious eye irritation

Precautionary Statement(s):

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310: Immediately call a POISON Center or doctor/physician.

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s):



Signal word: Warning



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:(Hazard statement(s)  
. H319: Causes serious eye irritation

Precautionary Statement(s):  
P102: Keep out of reach of children.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON Center or doctor/physician.

### Magnesium (Foundation C)

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s): Not required  
Signal word: Not required  
Hazard statement(s): Not required  
Precautionary Statement(s): Not required

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s): Not required  
Signal word: Not required  
Hazard statement(s): Not required  
Precautionary Statement(s): Not required

### **2.3 Other hazard**

Not available

## **SECTION 3: Composition/information on ingredients**

### **3.2 Mixtures:**

#### Calcium + (Foundation A)

| Substance name     | Identifiers                                    | %     | CLP/GHS Classification                                  | OSHA HCS  |
|--------------------|--|-------|---|---|
| Calcium chloride   | CAS number: 10043-52-4<br>EC number: 233-140-8 | 20-25 | Eye Irrit. 2 H319                                       | Eye Irrit. 2A H319  |
| Strontium chloride | CAS number: 10476-85-4<br>EC number: 233-971-6 | 1     | Eye Dam. 1 H318<br>STOT SE 3 H335<br>Skin Irrit. 2 H315 | Eye Dam. 1 H318<br>STOT SE 3 H335<br>Skin Irrit. 2 H315<br>Aquatic Acute 3 H402 |

#### KH/Alkalinity (Foundation B)

| Substance name      | Identifiers                                  | %     | CLP Classification   | OSHA HCS Classification   |
|---------------------|--|-------|--|---|
| Sodium carbonate    | CAS number: 497-19-8<br>EC number: 207-838-8 | 10-25 | Eye Irrit. 2 H319  | Eye Irrit. 2A H319  |
| Potassium carbonate | CAS number: 584-08-7<br>EC number: 209-529-3 | 1-5   | Acute Tox. 4 H302<br>Skin Irrit. 2 H315<br>Eye Irrit. 2 H319<br>STOT SE 3 H335 | Acute Tox. 4 H302<br>Skin Irrit. 2 H315<br>Eye Irrit. 2A H319<br>STOT SE 3 H335 |

See section 16 for the full text of the H-statements declared above.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the**

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environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

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### SECTION 4: First aid measures

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#### **4.1 Description of first aid measures**

**Eyes contact:** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

**Inhalation:** Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

**Ingestion:** **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

#### **4.2 Most important symptoms and effects, both acute and delayed**

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Not available

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### SECTION 5: Fire-fighting measures

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#### **5.1 Extinguishing media**

Suitable: Use extinguishing media suitable to the surroundings such as, dry chemical powder, chemical foam, water spray and carbon dioxide.

Not suitable: N/A

#### **5.2 Special hazards arising from the substance or mixture**

Not combustible. When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapours that may cause dizziness. Toxic fumes such as hydrogen chloride, strontium and calcium oxides may be evolved on thermal decomposition.

#### **5.3 Advice for firefighters**

**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

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### SECTION 6: Accidental release measures

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#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

#### **6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

#### **6.3 Methods and materials for containment and cleaning up**

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.



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### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

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## **SECTION 7: Handling and storage**

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### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

### **7.2 Conditions for safe storage, including any incompatibilities**

**Storage:** Keep only in original container. Avoid large temperature changes and store in a cool, dry, well ventilated environment and away from direct sunlight. Keep containers closed when not in use. Keep away from strong acids, strong oxidizing agents, borane/boron oxides, zinc, calcium oxide, methyl vinyl ether.

**7.3 Specific end use(s):** N/A

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## **SECTION 8: Exposure control/personal protection**

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### **8.1 Control parameters**

Occupational exposure limits: N/A

### **8.2 Exposure controls**

#### Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Person protective measures

Respiratory protection: Disposable particulate mask. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure. Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

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

Environmental exposure controls: Not available

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## **SECTION 9: Physical and chemical properties**

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### **9.1 Information on basic physical and chemical properties**

Calcium +(Foundation A)

Appearance: Clear liquid

Odour: none

Odour threshold: N/A pH:

N/A



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Melting point/Freezing point: N/A Initial  
boiling point/boiling range: N/A Flash  
point: N/A  
Evaporation rate: N/A Flammability  
non-combustible  
Upper/lower flammability or explosive limits: N/A Vapor  
pressure: N/A  
Vapor density: N/A Relative  
Density: N/A

Solubility(ies): completely soluble in water  
Partition coefficient Octanol/Water: N/A  
Auto-ignition temperature: N/A  
Decomposition temperature: N/A  
Viscosity: N/A  
Explosive properties: N/A  
Oxidizing properties: N/A

### KH/Alkalinity (Foundation B)

Appearance: Clear liquid  
Odour: none  
Odour threshold: N/A pH:  
N/A  
Melting point/Freezing point: N/A Initial  
boiling point/boiling range: N/A Flash  
point: N/A  
Evaporation rate: N/A Flammability:  
non-combustible  
Upper/lower flammability or explosive limits: N/A Vapor  
pressure: N/A  
Vapor density: N/A Relative  
Density: N/A  
Solubility(ies): completely soluble in water  
Partition coefficient Octanol/Water: N/A  
Auto-ignition temperature: N/A  
Decomposition temperature: N/A  
Viscosity: N/A  
Explosive properties: N/A  
Oxidizing properties: N/A

### Magnesium (Foundation C)

Appearance: Clear liquid  
Odour: none  
Odour threshold: N/A pH:  
N/A  
Melting point/Freezing point: N/A Initial  
boiling point/boiling range: N/A Flash  
point: N/A  
Evaporation rate: N/A Flammability:  
non-combustible  
Upper/lower flammability or explosive limits: N/A Vapor  
pressure: N/A  
Vapor density: N/A Relative  
Density: N/A  
Solubility(ies): completely soluble in water  
Partition coefficient Octanol/Water: N/A  
Auto-ignition temperature: N/A  
Decomposition temperature: N/A  
Viscosity: N/A

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Explosive properties: N/A  
Oxidizing properties: N/A

### **9.2 Other information**

Not available

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## **SECTION 10: Stability and reactivity**

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### **10.1 Reactivity**

Not available.

### **10.2 Chemical stability**

The product is stable under normal handling and storage conditions described in Section 7.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

### **10.4 Conditions to avoid**

Long term exposure to heat and direct sunlight.

### **10.5 Incompatible materials**

Strong acids, strong oxidizing agents, borane/boron oxides, zinc, calcium oxide, methyl vinyl ether.

### **10.6 Hazardous decomposition products**

Other decomposition products: not available

In the event of fire: see section 5

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## **SECTION 11: Toxicological information**

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### **11.1 Information on toxicological effects**

Acute toxicity:

Calcium +(Foundation A)

| Product/substance name | Test       | Species | Dose       |
|------------------------|------------|---------|------------|
| Calcium chloride       | LD50, Oral | Rat     | 1000 mg/kg |
| Strontium chloride     | LD50, Oral | Rat     | 1796 mg/kg |

KH/Alkalinity (Foundation B)

| Product/substance name | Test             | Species | Dose                       |
|------------------------|------------------|---------|----------------------------|
| Sodium carbonate       | LD50, Oral       | Rat     | 4090 mg/kg                 |
|                        | LC50, Inhalation | Rat     | 2300 mg/m <sup>3</sup> /2H |
| Potassium carbonate    | LD50, Oral       | Rat     | 1870 mg/kg                 |

Skin corrosion/irritation: Not available

Serious eye damage/irritation: The preparation contains a reasonable amount of Calcium chloride as well as a small amount of Strontium chloride which in combination can cause irritating effects when in contact with tissue of the eyes and possibly the skin. Inhalation of dust may also irritate the respiratory system and ingestion may damage the linings of the mouth, throat and gastro-intestinal tract

Respiratory or skin sensitization: No compounds present in the preparation have been identified as having sensitizing properties

Germ cell mutagenicity: No compounds present in the preparation have been identified as having

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. mutagenic properties

Carcinogenicity: No compounds present in the preparation have been identified as having carcinogenic properties.

Reproductive toxicity: No compounds present in the preparation have been identified as having reproductive toxicity properties.

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Other effect:

The preparation contains a small amount (<0.01%) of a compound which is classified as being toxic. Can cause irritating effects when comes in contact with tissue of the eyes and possibly the skin. Inhalation of spray or mist may also irritate the respiratory system and ingestion may damage the linings of the mouth, throat and gastro-intestinal tract.

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### SECTION 12: Ecological information

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#### **12.1 Toxicity**

| Product/substance name | Toxicity to fish                       | Toxicity to crustaceans            |
|------------------------|--|------------------------------------|
| Strontium chloride     | LC50/96h (Morone saxatilis) >92.8 mg/L | LC50/48h (Daphnia hyalina) 75 mg/L |

#### **12.2 Persistence and Degradability**

Not all of the compounds present in the preparation would be readily biodegradable in the environment.

#### **12.3 Bioaccumulative potential**

Not available

#### **12.4 Mobility in soil**

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.

#### **12.5 Results of PBT and vPvB assessment**

Not available

#### **12.6 Other adverse effects**

Not available

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### SECTION 13: Disposal considerations

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#### **13.1 Waste treatment methods**

##### **Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

##### **Packing**

Empty containers should be taken for local recycling, recovery or waste disposal.





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### SECTION 14: Transport information

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#### **14.1 Un number**

ADR/RID: -                      IMDG: -                      IATA: -                      DOT (US): -

#### **14.2 UN proper shipping name**

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

DOT (US): Not regulated

#### **14.3 Transport hazard class(es)**

ADR/RID: -                      IMDG: -                      IATA: -                      DOT (US): -

#### **14.4 Packing group**

ADR/RID: -                      IMDG: -                      IATA: -                      DOT (US): -

#### **14.5 Environmental hazard**

ADR/RID: -                      IMDG: -                      IATA: -                      DOT (US): -

#### **14.6 Special precautions for user**

Not available

#### **14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not available

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### SECTION 15: Regulatory information

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This SDS complies with the following requirements of:  
EU Directives 67/548/EEC (DSD) and 1999/45/EC (DPD), including amendments  
EU Regulation (EC) No.1907/2006 (REACH) including amendments  
Regulation (EC) No.1272/2008 (CLP)  
29 CFR 1910.1200 (OSHA HCS)

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

##### TSCA inventory

Calcium chloride CAS 10043-52-4  
Strontium chloride CAS 10476-85-4

#### **15.2 Chemical safety assessment**

Not available



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### SECTION 16: Other information

#### NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

#### Full text of Hazards Statements referred to in sections 2 and 3:

Eye Irrit.- Eye irritation

Eye Dam. - Serious eye damage

Skin Irrit. - Skin irritation

STOT SE - Specific target organ toxicity — single exposure

Aquatic Acute - Hazardous to the aquatic environment

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H402: Harmful to aquatic life.

Training advice: Before using/handling the product one must read carefully present SDS.

#### Key Legend Information:

CAS - Chemical Abstract Service

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NTP - National Toxicology program

IARC - International Agency for Research on Cancer

N/A - Not available

R-phrases- Risk phrases

H-statements- Hazard statements

TLV - Threshold Limit Value

TWA - Time-weighted average

STEL - Short-Term Exposure Limit

CSA - Chemical safety assessment

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Version no.: 1

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