



SAFETY DATA SHEET

Magnesium Pro Reef Test Kit & Refill

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Date of issue: 30/07/2017

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Version no.: 2

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

1.1 Product identifier

Product name: Magnesium Pro Reef

Product code: R21415, R21416

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

Aquarium water quality test kit.

1.3 Details of the supplier of the safety data sheet

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.com

1.4 Emergency telephone number

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):

<u>Reagent A</u>	<u>Reagent B</u>	<u>Reagent C</u>
Met. Corr. 1 H290 Skin Corr. 1A H314 Acute Tox. 4 H302, H312	Not classified	Not classified

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):

<u>Reagent A</u>	<u>Reagent B</u>	<u>Reagent C</u>
Met. Corr. 1 H290 Skin Corr. 1A H314 Acute Tox. 4 H302, H312	Not classified	Not classified

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

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2.2 Label elements

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Magnesium Pro test kit - Reagent A

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage. H302:
Harmful if swallowed.

H312: Harmful in contact with skin.

Precautionary Statement(s):

P102: Keep out of reach of children. 234:

Keep only in original container.

P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264:

Wash skin thoroughly after handling.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 +

P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P363: Wash contaminated clothing before reuse.

Magnesium Pro Pro test kit - Reagent B

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

Magnesium Pro Pro test kit -

Reagent C Hazard pictogram(s): Not

required Signal word: Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

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Labelling in accordance with Regulation 1272/2008 (CLP)

Magnesium Pro test kit - Reagent A

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage. H302:

Harmful if swallowed.

H312: Harmful in contact with skin.

Precautionary Statement(s):

P102: Keep out of reach of children. P234:

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P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P363: Wash contaminated clothing before reuse.

Magnesium Pro test kit - Reagent B

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

Magnesium Pro test kit - Reagent C

Hazard pictogram(s):

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

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2.3 Other hazard

Not available

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Magnesium Pro test kit - Reagent A

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sodium tetraborate decahydrate *	CAS number: 1303-96-4 EC number: 215-540-4 (anhydrous)	1-5	Repr. 1B H360FD	Repr. 1B H360FD
Potassium hydroxide	CAS number: 1310-58-3 EC number: 215-181-3	1-5	Acute Tox. 4 H302 Skin Corr. 1A H314	Acute Tox. 4 H302 Skin Corr. 1A H314
Oxalic acid	CAS number: 144-62-7 EC number: 205-634-3	1-5	Acute Tox. 4 H302, H312	Acute Tox. 4 H302, H312

* Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH), toxic for reproduction (article 57c).

Magnesium Pro test kit - Reagent B

No components need to be reported according to the applicable regulations.

Magnesium Pro test kit - Reagent C

No components need to be reported according to the applicable regulations.

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 environment and hence require reporting in this section.

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

SECTION 4: First aid measures

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.

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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

SECTION 5: Fire-fighting measures

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

The reagents tend to be water based and are not combustible or explosive. When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapours that may cause dizziness.

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.

SECTION 6: Accidental release measures

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

For liquid: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

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

6.4 Reference to other sections

See Section 1 for emergency contact information.



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SECTION 7: Handling and storage

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 acids, alkalis, oxidizing compounds and metals.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Substance name	Occupational exposure limits
Sodium hydroxide	ACGIH-TLV 2 mg/m ³ (CEIL) OSHA-PEL 2 mg/m ³ (TWA) NIOSH-REL 2 mg/m ³ (CEIL), 15M
Sodium tetraborate decahydrate	ACGIH-TLV 2 mg/m
Potassium hydroxide	ACGIH-TLV 2 mg/m ³ (CEIL) NIOSH-REL 2 mg/m ³ (TWA)
Oxalic acid	ACGIH-TLV 1 mg/m ³ (TWA), 2 mg/m ³ (STEL) OSHA-PEL 1 mg/m ³ (TWA) NIOSH-REL 1 mg/m ³ (TWA), 2 mg/m ³ (STEL)

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.

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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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Reagent A	Reagent B	Reagent C
Appearance:	colorless liquid	dark red liquid	colorless liquid
Odour:	none	none	none
Odour threshold:	N/A	N/A	N/A
pH:	11	N/A	N/A
Melting point/Freezing point:	N/A	N/A	N/A
Initial boiling point/boiling range:	N/A	N/A	N/A
Flash point:	N/A	N/A	N/A
Evaporation rate:	N/A	N/A	N/A
Flammability:	non-combustible	non-combustible	non-combustible
Upper/lower flammability or explosive limits:	N/A	N/A	N/A
Vapor pressure:	N/A	N/A	N/A
Vapor density:	N/A	N/A	N/A
Relative Density:	N/A	N/A	N/A
Solubility(ies):	completely soluble to give an alkaline solution	completely soluble to give an neutral solution	completely soluble to give an alkaline solution
Partition coefficient Octanol/Water:	N/A	N/A	N/A
Auto-ignition temperature:	N/A	N/A	N/A
Decomposition temperature:	N/A	N/A	N/A
Viscosity:	N/A	N/A	N/A
Explosive properties:	N/A	N/A	N/A
Oxidizing properties:	N/A	N/A	N/A

9.2 Other information

Not available

SECTION 10: Stability and reactivity

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.

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10.5 Incompatible materials

Acids, alkalis, oxidising compounds and metals. May produce heat.

10.6 Hazardous decomposition products

Other decomposition products: not available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product/substance name	Test	Species	Dose
Potassium hydroxide	LD50, Oral	Rat	273 mg/kg
Sodium tetraborate decahydrate	LD50, Oral	Rat	2660 mg/Kg

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: No compounds present in the reagents have been identified as having carcinogenic, mutagenic properties.

Carcinogenicity: No compounds present in the reagents have been identified as having carcinogenic, mutagenic properties.

Reproductive toxicity: Magnesium Pro test kit - Reagent A contains sodium tetraborate decahydrate, but at levels below the threshold for classification. This compound has been found to have effects on reproduction and fertility.

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Other effects:

Magnesium Pro test kit - Reagent A is classified as corrosive due to presence of potassium hydroxide that may will cause local damage in contact with tissue of the eyes and skin. Inhalation of spray or mist will irritate the respiratory system and ingestion will damage the linings of the mouth, throat and gastro-intestinal tract.

SECTION 12: Ecological information

12.1 Toxicity

Not available

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Compounds present in the reagents would be readily bio-degradable in the environment.

12.4 Mobility in soil

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



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12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

14.1 Un number

ADR/RID: 3316

IMDG: 3316

IATA: 3316

DOT (US): 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

DOT (US): Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

DOT (US): 9

14.4 Packing group

ADR/RID: II

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

SECTION 15: Regulatory information

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



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Chemicals known to the state to cause reproductive toxicity:

Ethylene glycol (ingested) CAS 107-21-1

TSCA inventory

All components of the product are listed in the TSCA inventory.

15.2 Chemical safety assessment

Not available

SECTION 16: Other information

NFPA Rating

Reagent A	Reagent B	Reagent C
Health hazard: 3	Health hazard: 0	Health hazard: 0
Fire Hazard: 0	Fire Hazard: 0	Fire Hazard: 0
Reactivity Hazard: 0	Reactivity Hazard: 0	Reactivity Hazard: 0

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

Skin Corr. - Skin corrosion
Met. Corr. - Substance or mixture corrosive to metals
Acute Tox. - Acute toxicity
Eye Irrit.- Eye irritation
STOT SE - Specific target organ toxicity — single exposure
Repr. - Reproductive toxicity
Skin Irrit. - Skin irritation
H290: May be corrosive to metals.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H360FD: May damage fertility. May damage the unborn child.

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
TSCA - United States Toxic Substances Control Act Inventory



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