



SAFETY DATA SHEET

Phosphate Pro Test Kit and Refill

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Date of issue: 28/07/2016

Date of revision: 21/11/18

Version no.: 2

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

Product identifier 1.1

Product name: Phosphate Pro Test Kit, Phosphate Pro Test Kit Refill

Product code: R21425;21426

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

Aquarium water quality test kit

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.com

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):

Phosphate pro test kit

<u>Reagent A</u>	<u>Reagent B</u>
Met. Corr. 1 H290 Skin Corr. 1A H314	Flam. Liq. 2 H225

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

Phosphate pro test kit

<u>Reagent A</u>	<u>Reagent B</u>
Met. Corr. 1 H290 Skin Corr. 1A H314	Flam. Liq. 2 H225

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)

Phosphate 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.

Precautionary Statement(s):

P102: Keep out of reach of children.

P234: Keep only in original container.

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

P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.

P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON Center or doctor/physician.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.

P363: Wash contaminated clothing before reuse.

Phosphate pro test kit - Reagent B

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H225: Highly flammable liquid and vapour.

Precautionary Statement(s):

P102: Keep out of reach of children.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P243: Take precautionary measures against static discharge.

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

P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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Labelling in accordance with Regulation 1272/2008 (CLP)

Phosphate 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.

Precautionary Statement(s):

P102: Keep out of reach of children.

P234: Keep only in original container.

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

P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.

P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON Center or doctor/physician.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.

P363: Wash contaminated clothing before reuse.

Phosphate pro test kit - Reagent B

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H225: Highly flammable liquid and vapor.

Precautionary Statement(s): P102:

Keep out of reach of children.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P243: Take precautionary measures against static discharge.

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

P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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2.3 Other hazard

Not available

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Phosphate pro test kit - Reagent A

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sulphuric acid	CAS number: 7664-93-9 EC number: 231-639-5	10-25	Skin Corr. 1A H314	Skin Corr. 1A H314
Ammonium molybdate(VI)	CAS number: 13106-76-8 EC number: 236-031-3	1-5	Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315	Eye Irrit. 2A H319 STOT SE 3 H335 Skin Irrit. 2 H315

Phosphate Pro test kit - Reagent B

Ingredient name	Identifiers	%	CLP/GHS Classification
Brilliant green	CAS number: 633-03-4 EC number: 211-190-1	0.05	Not available*
Ethanol absolute	CAS number: 64-17-5 EC number: 200-578-6	50	Flam. Liq. 2 H225
De-ionised water	CAS number: 7732-18-5 EC number: 231-791-2	50	Not classified

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 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

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

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. However, during heating may give off flammable fumes which if sufficient quantity is present may become flammable or explosive in a confined space. When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapors 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.

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6.4 Reference to other sections

See Section 1 for emergency contact information.

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
Sulphuric acid	ACGIH-TLV 0.2 mg/m ³ (TWA), thoracic OSHA-PEL 1 mg/m ³ (TWA) NIOSH-REL 1 mg/m ³ (TWA)
Ammonium molybdate(VI)	ACGIH-TLV 10 mg(Mo)/m ³ (TWA), inhalable ACGIH-TLV 3 mg(Mo)/m ³ (TWA), respirable OSHA-PEL 5 mg(Mo)/m ³ (TWA)
Ethanol	ACGIH-TLV 1000 mg/m ³ (TWA) OSHA-PEL 1900 mg/m ³ (TWA) NIOSH-REL 1900 mg/m ³ (TWA)



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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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Phosphate pro test kit

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

9.2 Other information

Not available

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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.

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
Sulphuric acid	LD50, Oral	Rat	2140 mg/kg
	LC50, Inhalation	Rat	510 mg/m ³ /2H
Ammonium molybdate(VI)	LD50, Oral	Rat	680 mg/kg
Ethanol	LD50 Oral	Rat	10.470 mg/kg
	LC50 Inhalation - 4 h	Rat	30.000 mg/l
	LD50 Dermal	Rabbit	15.800 mg/kg

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: Not available

Carcinogenicity:

Sulphuric acid

ACGIH A2-Suspected human carcinogen

IARC Group 1 - Carcinogenic to humans

NTP 1 - Known to be human carcinogen

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

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Other effects:

Phosphate pro test kit - Reagent A has reasonable high levels of Sulphuric acid and is also classified as being corrosive and 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

Not available

12.4 Results of PBT and vPvB assessment

Not available

12.5 Other adverse effects

Phosphate pro test kit - Reagent A is strongly acidic so may be inadvertently hazardous to aquatic organisms.

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): -



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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

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

TSCA inventory

The substances in this kit are included on or exempted from the TSCA inventory.

15.2 Chemical safety assessment

Not available

SECTION 16: Other information

NEPA Rating:

Phosphate Pro test kit

<u>Reagent A</u>	<u>Reagent B</u>
Health hazard: 3	Health hazard: 3
Fire Hazard: 0	Fire Hazard: 0
Reactivity Hazard: 0	Reactivity Hazard: 0

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

Expl. - Explosive

Acute Tox. - Acute toxicity

Skin Corr. - Skin corrosion

Skin Irrit. - Skin irritation

Skin Sens. - Skin sensitization

Eye Irrit.- Eye irritation

STOT SE - Specific target organ toxicity — single exposure

Aquatic Acute - Hazardous to the aquatic environment

Aquatic Chronic - Hazardous to the aquatic environment

H201: Explosive; mass explosion hazard.

H290: May be corrosive to metals.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.



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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

Date of issue: 28/07/2016

Version no.: 1

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