

SAFETY DATA SHEET

PH/KH Marine Test Kit

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

Product identifier 1.1

Product name PH/KH Marine Test kit

Product code: R21455

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>pH indicator</u>	<u>KH indicator</u>
Not classified	Acute Tox. 4 H302

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

pH/Alkalinity test kit

<u>pH indicator</u>	<u>KH indicator</u>
Not classified	Acute Tox. 4 H302

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

2.2 Label elements

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

pH/Alkalinity test kit - KH indicator

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s):

H302: Harmful if swallowed.

Precautionary Statement(s):

P102: Keep out of reach of children.

P270: Do not eat, drink or smoke when using this product.

P330: Rinse mouth.

Labelling in accordance with Regulation 1272/2008 (CLP)

pH/Alkalinity test kit - pH indicator

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

pH/Alkalinity test kit - KH indicator

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s):

H302: Harmful if swallowed.

Precautionary Statement(s):

P102: Keep out of reach of children.

P270: Do not eat, drink or smoke when using this product. P330: Rinse mouth.

2.3 Other hazard

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

pH indicator

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Ethanol	CAS number: 64-17-5 EC number: 200-578-6	<1	Flam. Liq. 2 H225	Flam. Liq. 2 H225
Bromothymol blue	CAS number: 76-59-5 EC number: 200-971-2	<0.1	Not available Acute Tox. 2 H300	Not available Acute Tox. 2 H300
Sodium hydroxide	CAS number: 1310-73-2 EC number: 215-185-5	<0.1	Skin Corr. 1B H314 Muta. 2 H341 Repr. 2 H361f	Skin Corr. 1B H314 Muta. 2 H341 Repr. 2 H361
			STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
Mercury chloride	CAS number: 7487-94-7 EC number: 231-299-8	<0.01		

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KH Indicator

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Ethylene glycol	CAS number: 107-21-1 EC number: 203-473-3	50-75	Acute Tox. 4 H302	Acute Tox. 4 H302
Bromocresol green	CAS number: 76-60-8 EC number: 200-972-8	<1	Not available	Not available
Hydrochloric acid	CAS number: 7647-01-0 EC number: 231-595-7	<1	Skin Corr. 1B H314 STOT SE 3 H335	Skin Corr. 1B H314 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 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.
- 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. Toxic fumes 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

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.

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
Mercury chloride	ACGIH-TLV 0.025 mg(Hg)/m ³ (TWA), skin NIOSH-REL 0.1 mg/m ³ (CEIL), skin
Ethylene glycol	ACGIH-TLV 100 mg/m ³ (CEIL), aerosol
Hydrochloric acid	ACGIH-TLV 2 ppm (CEIL) OSHA-PEL 5 ppm (CEIL) NIOSH-REL 5 ppm (CEIL)

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.



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Person protective measures

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

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

pH/Alkalinity test kit

	<u>KH indicator</u>	<u>pH indicator</u>
Appearance:	light yellow/orange clear liquid	dark green liquid
Odour:	none	none
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
	<u>KH indicator</u>	<u>pH indicator</u>
Evaporation rate:	N/A	N/A
Flammability:	non-combustible	non-combustible
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 in water to give an acidic solution	completely soluble in water to give an acidic 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

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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.

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
Mercury chloride	LD50, Oral	Rat	1 mg/kg
Ethylene glycol	LD50, Oral LD50, Administration onto the skin	Rat Rabbit	4700 mg/kg 9530 µL/kg
Hydrochloric acid	LC50, Inhalation	Rat	3700 ppm/30M

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: No compounds present in the reagents have been identified as having sensitising properties.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

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:

KH indicator: It is classified as being harmful due to the levels present of ethylene glycol. Ethylene glycol when ingested can mimic alcohol inebriation followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany, and severe metabolic acidosis. Without treatment, death may occur in 8 to 24 hours. Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage. Exposure to and/or consumption of alcohol may increase toxic effects.

A compound classified as being corrosive is also present at very low concentrations (<1%) within the KH indicator and may cause irritation when in contact with eyes and skin. Inhalation may irritate the respiratory system and if ingested, irritation of the linings of the mouth, throat and gastro-intestinal tract could occur.

SECTION 12: Ecological information

12.1 Toxicity

Not available

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

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.



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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: II

DOT (US): II

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 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

15.1 Chemical safety assessment

Not available



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SECTION 16: Other information

NEPA Rating:

<u>pH indicator</u>	<u>KH indicator</u>
Health hazard: 0	Health hazard: 2
Fire Hazard: 0	Fire Hazard: 0
Reactivity Hazard: 0	Reactivity Hazard: 0

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

Acute Tox. - Acute toxicity
Skin Corr. - Skin corrosion
H290: May be corrosive to metals.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.

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
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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