

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
Issue 1 - Revision Date 19.02.2012

1. IDENTIFICATION OF PREPARATION AND OF COMPANY

Brand name : RED SEA

Product name : KH/PH TEST KIT

Product category : AQUARIUM FISH TREATMENT

Product code : R21455

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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2. HAZARD IDENTIFICATION

KH INDICATOR

Classification for supply : **KH Reagent** - Classified as being **Harmful**
Xn, R22

Health / physical hazard : **KH Reagent** - Harmful if swallowed

Environmental hazard : **None**

Physico-chemical hazard : **KH Reagent** - May corrode metals and produce flammable vapours

PH INDICATOR

Classification for supply : **PH Reagent** - Not Classified

Health / physical hazard : **PH Reagent** - Not Classified

Environmental hazard : **None**

Physico-chemical hazard : **None**

3. COMPOSITION / INFORMATION ON INGREDIENTS

	Hazardous component	Classification	CAS No.	Conc.
KH INDICATOR	Ethylene glycol	Xn – R22	107-21-1	50 - 75%

Classification symbol / letter and R phrases – Refer to section 16 where the full text of each relevant symbol and 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 reagents tend to be water based and are 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. ACCIDENTIAL 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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

KH INDICATOR

Appearance :	Light yellow/orange 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 to give an acidic solution
Boiling point :	Not determined	Other :	

PH INDICATOR

Appearance :	Dark green 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 to give an acidic solution
Boiling point :	Not determined	Other :	

10. STABILITY AND REACTIVITY

- Stability :** Reagents stable under recommended storage and handling conditions.
- Conditions to avoid:** Long term exposure to heat and direct sunlight.
- Materials to avoid :** Acids, alkalis, oxidising compounds and metals. May produce heat.
- Decomposition products :** Toxic fumes may be evolved on thermal decomposition.

11. TOXICOLOGICAL INFORMATION

The preparations / reagents have 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 :** The **KH INDICATOR** 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.
- Corrosivity / Irritation :** 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
- Sensitisation :** No compounds present in the reagents have been identified as having sensitising properties.
- Repeated-dose toxicity :** No compounds present in the reagents have been identified as having repeated-dose toxicity properties.

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

12. ECOLOGICAL INFORMATION

Ecotoxicological data has not been determined specifically for the preparations / reagents, but are 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 reagents, 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 reagents would be readily bio-degradable in the environment.

Bioaccumulation : No information available.

Ecotoxicity : No components in the reagents have been shown to be 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 05

16 Wastes not otherwise specified in the lists

03 Off specification batches and unused products

05 Organic 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 : 9

Packing group : II

UN No. : UN 3316

Shipping name : CHEMICAL KIT

Maritime transport

IMO – IMDG hazard class : 9

Packing group : II

UN No. : UN 3316

Shipping name : CHEMICAL KIT

Air transport

ICAO/IATA classification : 9
Packing group : II
UN No. : UN 3316
Shipping name : CHEMICAL KIT

15. REGULATORY INFORMATION

EEC labelling information Classified according to CHIP (Chemical Hazard information and packaging) regulations.

KH INDICATOR

Hazard symbols : Harmful : Xn



Contains : Ethylene glycol

R phrase(s) : R22 Harmful if swallowed

S phrase(s) : S2 Keep out of reach of children
S7 Keep container tightly closed
S46 If swallowed seek medical advice immediately and show this container or label.

PH INDICATOR

Hazard symbols : Not classified

Contains : none

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 :

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 : Xn Harmful
R21/22 Harmful in contact with skin and if swallowed
R22 Harmful if swallowed

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 : A multiple test kit to measure semi-quantitatively the alkalinity and PH levels in aquarium water.

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.