SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
Issue 2 - Revision Date 23.01.2011
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1. IDENTIFICATION OF PREPARATION AND OF COMPANY

Brand name : RED SEA

Product name : **ALGAE CONTROL PRO TEST KIT**

Product category : AQUARIUM WATER QUALITY TEST KIT

Product code : R21520

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Emergency No. : As appropriate above

2. HAZARD INDENTIFICATION

NITRATE (NO_3) KIT REAGENTS

Classification for supply :

NO_3 Reagent A – Classified as being **Corrosive**
C, R35

NO_3 Reagent B – Classified as being **Irritant** and **Dangerous For the Environment**
Xi, R43; Xn, R5/53

NO_3 Reagent C – Not classified as being hazardous

Health / physical hazard :

NO_3 Reagent A – Cause sever burns

NO_3 Reagent B – May cause sensitisation by skin contact

Environmental hazard : Toxic to aquatic organizms, may couse long term adverse in the quatic environment

Physico-chemical hazard : May corrode metals

PHOSPHATE (PO_4) KIT REAGENTS

Classification for supply :	**PO_4 Reagent A –**	Classified as being **Corrosive** C, R35
	PO_4 Reagent B –	Not classified as being hazardous
Health / physical hazard :	**PO_4 Reagent A –**	Causes severe burns
Environmental hazard :	**None**	
Physico-chemical hazard :	**PO_4 Reagent A –**	May corrode metals and produce flammable vapours

3. COMPOSITION / INFORMATION ON INGREDIENTS

	Hazardous component	Classification	CAS No.	Conc.
NITRATE KIT				
NO_3 Reagent A	Sulphuric acid (95-97%) (ρ = 1.82)	C - R35	7664-93-9	25-50%
NO_3 Reagent B	Zinc powder (stabilized)	N – R50/53	7440-66-6	1-5%
	Sulphanilic acid	Xi – R43	121-57-3	1 %
PHOSPHATE KIT				
PO_4 Reagent A	Sulphuric acid	C – R35	7664-93-9	10 - 25%
	Ammonium molybdate	Xi – R36/37/38	1306-76-8	1- 5%
PO_4 Reagent B	Tin chloride $2H_2O$	C – R22, R34	10025-69-1	1- 5%

Classification symbol / letter and R phrases – Refer to section 16 where the full text of each relevant symbol / 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. However, during heating may give off flammable fumes which if sufficient quantity is present may become flammable or explosive in a confined space.

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.

Clean-up procedure : 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

Handling requirements : Handle liquids carefully taking care to avoid contact with skin and eyes, and inhalation of any mists or vapours. When handling large quantities, wear personal protective equipment as described in section 8 and good general ventilation is recommended.

Storage requirements : Keep only in original container. Avoid large temperature changes and store in a cool, dry, well ventilated environment way from direct sunlight. Keep containers closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Exposure limit values : Generally not applicable to the packed liquids due to small volumes of liquid being handled coupled with very short exposure times and packaging type.

Exposure controls : None when handling packed liquids in kit form.
For large volumes, good general ventilation is recommended. Where conditions may lead to high airborne concentrations, local exhaust ventilation may be necessary to ensure that workplace exposure limits are not exceeded.

Take measure to prevent : Spillage, skin and eye contact, and ingestion.

Personal protective equipment : For professional use, the need for personal protective equipment should be based on a workplace risk assessment. Avoid skin contact by wearing chemical resistant gloves (e.g. rubber, neoprene, nitrile) and safety goggles. Where more extensive contact may occur, wear suitable protective clothing (e.g. apron, sleeves and boots). Personal protective equipment should be chosen in consultation with the manufacturer or distributor of the equipment.

Respiratory protection : Respiratory protection is not necessary if kit is used in accordance with manufacturer's instructions.
If required, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges.

Hand protection : Protective gloves.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection : Face shield and safety goggles.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 166 derived from it.

Skin and body protection : Protective clothing; laboratory coat, apron, arm protection etc.
Choose body protection according to the amount and concentration of the dangerous substance being used.

Hygiene measures : Handle in accordance with good hygiene and safety practices, and wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

NITRATE (NO_3) KIT REAGENTS

NO_3 REAGENT A

Appearance :	Clear liquid	**Flash point (°C) :**	Not applicable
Odour :	None	**Flammability :**	Liquid is non-combustible Not
pH :	Not determined	**Oxidising properties :**	applicable
Density :	Not determined	**Solubility (water) :**	Completely soluble to give an
Boiling point :	Not determined	**Other :**	acidic solution

NO_3 REAGENT B

Appearance :	Gray Powder	**Flash point (°C) :**	Unknown
Odour :	None	**Flammability :**	Powder is non-combustible
pH :	Not determined	**Oxidising properties :**	Not applicable
Density :	Not determined	**Solubility (water) :**	Completely soluble to give a neutral solution.
Boiling point :	Not determined	**Other :**	

NITRATE (NO_3) KIT REAGENTS – Cont.

NO_3 REAGENT C

Appearance :	White powder	**Flash point (°C) :**	Unknown
Odour :	None	**Flammability :**	Powder is not 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 :**	

PHOSPHATE (PO_4) KIT REAGENTS

PO_4 REAGENT A

Appearance :	Colourless 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 :**	

PO_4 REAGENT B

Appearance :	Colourless viscous liquid	**Flash point (°C) :**	Unknown
Odour :	None	**Flammability :**	Liquid is non-combustible
pH :	Not determined	**Oxidising properties :**	Not applicable
Density :	Not determined	**Solubility (water) :**	Completely soluble to give a neutral 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 : No compounds present in the reagents have been identified as havingas being toxic by prolonged exposure by inhalation and ingestion.

Corrosivity / Irritation : **NO_3 Reagent A** is classified as being corrosive due to the level of Sulphuric acid present while **PO_4 Reagent A** has reasonable high levels of Sulphuric acid and is also classified as being corrosive. Both 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.

Sensitisation : **Reagent B**: is classified as being irritant due to the level of Sulphanilic acid

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 Carcinogenicity / Mutagenicity / Reproductive toxicityproperties.

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 : The Zinc powder in **reagent B** is not soluble under normal environmental conditions, however processing the product or extended exposure in aquatic environment may lead to zinc compounds in bioavailable forms. In soil, zinc is moderately mobile.

Persistence and degradability : Compounds present in **reagent B** are known to be persist in the environment.

Bioaccumulation : Zinc powder in **reagent B**, can accumulate in plants and marine organisms.

Ecotoxicity : Zinc powder in **reagent B**, has been shown to be hazardous to aquatic organisms. **NO_3 Reagent A** and **PO_4 Reagent A** is strongly acidic so may be inadvertently 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.

NITRATE (NO_3) KIT REAGENTS

NO_3 REAGENT A

Symbol(s) required	 C
Hazard statement(s)	CORROSIVE
Contents statement	Contains Sulphuric acid
Risk statements Safety statements	R35 Causes severe burns S1/2 Keep locked up and out of reach of children. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water. S37/39 Wear suitable gloves and eye/face protection.

NO_3 REAGENT B

Symbol(s) required	Xi  N 
Hazard statement(s)	IRRITANT, DANGEROUS FOR THE ENVIRONEMNT
Contents statement	Contains Sulphanilic acid
Risk statements	R43 May cause sensitisation by skin contact R51/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

NITRATE (NO_3) KIT REAGENTS – Cont.

Safety statements	S2	Keep locked up and out of reach of children.
	S24	Avoid contact with skin.
	S37	Wear suitable gloves.
	S46	If swallowed seek medical advice immediately and show this container or label.
	S56	Avoid release to the environment. Refer to special instructions/ safety data sheet.

NO_3 REAGENT C

Symbol(s) required	None	
Hazard statement(s)	None	
Contents statement	None	
Risk statements	None	
Safety statements	S2	Keep locked up and out of reach of children.
	S46	If swallowed seek medical advice immediately and show this container or label.
Symbol(s) required	None	
Hazard statement(s)	None	
Contents statement	None	

PHOSPHATE (PO_4) KIT REAGENTS

PO_4 REAGENT A

Hazard symbols :	**Corrosive** : C	
Contains :	Sulphuric acid	
R phrase(s) :	R35	Causes severe burns
S phrase(s) :	S1/2	Keep locked up and out of reach of children
	S37/39	Wear suitable gloves and eye/face
	S26	In case of contact with eyes, rinse immediately with plenty of and seek medical advice.
	S28	After contact with skin, wash off immediately with plenty of water
	S46	If swallowed seek medical advice immediately and show this label.

Other regulatory information:

Hazard symbols :	**Not classified**	
Contains :		
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

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 :

C	Corrosive
Xi	Irritant
N	Dangerous for the environment

R35	Causes severe burns
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects In the aquatic environment

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 : To measure semi-quantitatively the Nitrate and Phosphate 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.