SAFETY DATA SHEET

Date of issue: 04/08/2016 Date of revision: 05/07/2017 Version no.: 2

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

Product identifier 1.1
Product name: Iron+ (Trace-Colors C) - 500, 5000 ml
Product code: R22063, R22065

1.2 Relevant identified uses of the substance or mixture and uses advised against
Aquarium water supplement.

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.co.il

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):
Eye Irrit. 2A H319

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):
Eye Irrit. 2 H319

2.2 Label elements
Labelling according to 29 CFR 1910.1200 (OSHA HCS)
Hazard pictogram(s):

Signal word: Warning

Hazard statement(s):
H319: Causes serious eye irritation.

Precautionary Statement(s):
P102: Keep out of reach of children.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.

Labelling in accordance with Regulation 1272/2008 (CLP)
Hazard pictogram(s):

Signal word: Warning

Hazard statement(s):
H319: Causes serious eye irritation.

Precautionary Statement(s):
P102: Keep out of reach of children.
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P337 + P313: If eye irritation persists: Get medical advice/attention.

2.3 Other hazard
Not available

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Tetrasodium ethylene diamine tetraacetate	CAS number: 64-02-8 EC number: 200-573-9	0.5-1	Acute Tox. 4 H302 Eye Dam. 1 H318	Acute Tox. 4 H302 Eye Dam. 1 H318
Boric acid	CAS number: 10043-35-3 EC number: 233-139-2	0.5-1	Repr. 1B H360FD	Repr. 1B H360
Hydrochloric acid	CAS number: 7647-01-0 EC number: 231-595-7	0.5-1	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 preparation is water based and 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.

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
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.

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 and bases, strong oxidizing and reducing agents, metals, hydrazine, amines.

7.3 **Specific end use(s):** N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Occupational exposure limits:

Substance name	Occupational exposure limits
Boric acid	ACGIH-TLV 2 mg/m^3 (TWA), 6 mg/m^3 (STEL), inhal.
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.

Person protective measures

Respiratory protection: Suitable respirator. 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 preparation 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

Information on basic physical and chemical properties 9.1

Appearance: clear amber/ brown liquid
Odour: none
Odour threshold: N/A
pH: N/A
Melting point/Freezing point: N/A
Initial boiling point/boiling range: N/A
Flash point: N/A
Evaporation rate: N/A
Flammability: non-combustible
Upper/lower flammability or explosive limits: N/A
Vapor pressure: N/A
Vapor density: N/A
Relative Density: N/A
Solubility(ies): completely soluble in water

Partition coefficient Octanol/Water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A
Explosive properties: N/A
Oxidizing properties: 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.

10.5 Incompatible materials
Acids and bases, strong oxidizing and reducing agents, metals, hydrazine, amines.

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:

Substance name	Test	Species	Dose
Tetrasodium ethylene diamine tetraacetate	LD50, Oral	Rat	10000 mg/kg
Boric acid	LD50, Oral	Rat	2660 mg/kg
Hydrochloric acid	LC50, Inhalation	Rat	3700 ppm/30M

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: The preparation contains very small amounts (<0.01%) of compounds that have been identified as having sensitising properties.

Germ cell mutagenicity: The preparation contains very small amounts of compounds which have been identified as having mutagenic toxicity properties.

Carcinogenicity: The preparation contains very small amounts of compounds which have been identified as having carcinogenic toxicity properties.

Reproductive toxicity: The preparation contains a small amount of Boric acid that has been identified as having reproductive toxicity properties.

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Other effect:
The preparation contains a very small amount (<0.01%) of a strong alkali which in combination with other compounds may cause irritating effects in contact with tissue of the eyes and skin. Inhalation of spray or mist may also irritate the respiratory system and ingestion may damage the linings of the mouth, throat and gastro-intestinal tract. The preparation contains a small amounts (<0.01%) of compounds that are classified as being either very toxic or toxic, as well as small quantities of other compounds which are classified as being harmful to health. One compound is present within the preparation in a very small amount (<0.01%) that has been identified as having repeat-dose toxicity properties.

SECTION 12: Ecological information

12.1 Toxicity
Not available

12.2 Persistence and Degradability
Not all of the compounds present in the preparation would be readily biodegradable in the environment.

12.3 Bioaccumulative potential
Not available

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

12.5 Results of PBT and vPvB assessment
Not available

Other adverse effects 12.6
Iron + (Trace color C) contains components in very small amounts (<0.01%) that have been shown to .be 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: - IMDG: - IATA: - DOT (US): -

14.2 UN proper shipping name
ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

DOT (US): Not regulated

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: - DOT (US): -

14.4 Packing group

ADR/RID: - 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 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

Boric acid
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).

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 preparation are included on or exempted from the TSCA inventory.

15.2 Chemical safety assessment

Not available

ECTION 16: Other information

Full text of Hazards Statements referred to in sections 2 and 3:
Acute Tox. - Acute toxicity
Skin Corr. - Skin corrosion
Skin Irrit. - Skin irritation
Eye Dam. - Serious eye damage
STOT SE - Specific target organ toxicity — single exposure
Repr. - Reproductive toxicity
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H360: May damage fertility or the unborn child.
H360FD: May damage fertility. May damage the unborn child.

NFPA Rating
Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

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

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