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

1.1 Product identifier

Product name	Fesorb
Product number	POF-0750
Brand	ReefX®
Substance name	Iron (III) oxide
CAS no.	1309-37-1

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

For removal of phosphate, arsenic and solicate from marine and freshwater aquaria.

1.3 Details of the supplier of the safety data sheet

Name	Live Reef Ltd
Address	8-9 Mountbatten Road EX16 6SW Tiverton Devon UK
Telephone	+44 (0)800 8620270
email	info@livereef.uk

1.4 Emergency telephone number

Live Reef Distribution Ltd
+44 (0)800 8620270

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.3 Other hazards

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	Iron (III) oxide
CAS no.	1309-37-1
Formula	Fe2O3
Molecular weight	159.7
Other names / synonyms	Iron hydroxide oxide; Iron hydroxide; Iron (III) oxide

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation	If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.
Following skin contact	Wash skin thoroughly with soap and water. Continue washing for at least 15 minutes. Seek medical attention if symptoms occur or redness persists.
Following eye contact	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
Following ingestion	Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use water spray, foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

This product may give rise to hazardous fumes in a fire.

5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing.
Avoid inhalation of dusts or aerosols.
Ensure adequate ventilation.
Ventilate area of spill.

6.2 Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up
This product may be collected by carefully scooping into a pan, paper towel or other absorbent material.
Clean up spills in a manner that does not disperse dust into the air.
Use non-sparking tools and equipment.
Reduce airborne dust and prevent scattering by moistening with water.
Transfer into suitable containers for recovery or disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid buildup of static charge in handling equipment.
Do not get in eyes, on skin or on clothing.
Avoid breathing dust.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed when not in use.
Storage area should be: cool, dry, well ventilated, and away from incompatible materials (see section 10 for materials to avoid).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Iron (III) oxide (CAS: 1309-37-1 EC: 215-168-2)

Parameter	REL
Route of exposure	Inhalation
Value	5 mg/m3 (dust and fume)
Source	NIOSH
Basis / monitoring / notes	OSHA Annotated Table Z-1, www.osha.gov
Parameter	PEL
Route of exposure	Inhalation
Value	5 mg/m3 (fume)
Source	Cal/OSHA
Basis / monitoring / notes	OSHA Annotated Table Z-1, www.osha.gov
Parameter	PEL
Route of exposure	Inhalation
Value	10 (fume) mg/m3
Source	OSHA
Basis / monitoring / notes	OSHA Annotated Table Z-1, www.osha.gov
Parameter	TWA

Value	5 mg/m3

8.2 Exposure controls

Appropriate engineering controls
Good general room ventilation is expected to be adequate to control airborne levels.
If conditions are dusty, use local exhaust ventilation.

Personal protection equipment

Pictograms

Eye and face protection
Chemical goggles or safety glasses with side shields.

Skin protection
Rubber gloves.

Body protection
Normal work wear.

Respiratory protection
NIOSH Approved dust respirator if conditions are dusty.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Solid; brown/dark red granules
Odour	Ordorless
Odour threshold	Not applicable
pH	No data available
Melting point / freezing point	565
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not flammable
Upper/lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	> 1.0 g/ml
Relative density	1.23
Solubilit(ies)	Insoluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not explosive
Oxidising properties	Not oxidising

SECTION 10: Stability and reactivity

10.1 Reactivity
No data avilable.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No data avilable.

10.4 Conditions to avoid
High temperatures.

10.5 Incompatible materials
Hydrazine, calcium hypochlorite, performic acid.

10.6 Hazardous decomposition products
Acrid smoke and irritating fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 10.000 mg/kg bw

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
This product is not expected to cause any mutagenic effects.

Carcinogenicity
This product is not expected to cause long-term adverse health effects.

Reproductive toxicity
This product is not expected to cause reproductive or developmental health effects.

STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
No data available.

SECTION 12: Ecological information

12.1 Toxicity
No relevant studies identified.

12.2 Persistence and degradability
No relevant studies identified.

12.3 Bioaccumulative potential
No relevant studies identified.

12.4 Mobility in soil
No relevant studies identified.

12.5 Results of PBT and vPvB assessment
Not applicable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of the product
Dispose of in accordance with all applicable local and national regulations.

Disposal of contaminated packaging
Dispose of in accordance with all applicable local and national regulations.

SECTION 14: Transport information

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

New Jersey Right To Know Components
Common name: IRON OXIDE
CAS number: 1309-37-1

Pennsylvania Right To Know Components
Chemical name: Iron oxide
CAS number: 1309-37-1

15.2 Chemical Safety Assessment
Yes.

HMIS Rating

Iron (III) oxide	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating

SECTION 16: Other information

Further information/disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.