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

1.1 Product identifier

Product name	Mg Powder
Product number	MGP-0500, MGP-1000, MGP-2500N
Brand	ReefX®

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

For adjusting and maintaining magnesium levels in 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

No components need to be reported according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation	Move exposed individual to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Seek medical advise if discomfort or irritation persists.
Following skin contact	Take off contaminated clothing immediately. Wash off with soap and plenty of water. Seek medical advise if discomfort or irritation persists.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Seek medical advise if irritation or discomfort persists, or if concerned.
Following ingestion	Rinse mouth thoroughly. Do not induce vomiting. Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Seek medical attention if irritation, discomfort or vomiting persists.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use extinguishing media suitable to the surroundings such as, dry chemical powder, chemical foam, water spray and carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Not combustible.
When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapours that may cause dizziness.
Toxic fumes such as hydrogen chloride, magnesium and sulphur oxides may be evolved on thermal decomposition.

5.3 Advice for firefighters

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 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
Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes.
Avoid inhalation of dusts or aerosols.
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.

7.2 Conditions for safe storage, including any incompatibilities
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 strong acids and strong oxidizing compounds.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Mg Powder

Parameter	Exposure limit
Value	N/.A

8.2 Exposure controls

Appropriate engineering controls

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.

Personal protection equipment

Pictograms

Eye and face protection
Wear protective safety glasses.

Skin protection
Wear protective gloves to prevent skin exposure.

Body 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.

Respiratory protection
Normal use: none.
If user operations generate dust, fume or mist: wear mask or respirator with filter type P2.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	White powder
Odour	None
Odour threshold	No data available
pH	8.2
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Non flammable
Upper/lower flammability limits	Non flammable
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.60 @ 20 °C
Solubilit(ies)	Soluble in water: 167g/l @ 20 °C
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Non flammable
Decomposition temperature	Decomposes above 50 °C
Viscosity	No data available
Explosive properties	Non explosive
Oxidising properties	Non oxidising

9.2 Other information
Hygroscopic.

SECTION 10: Stability and reactivity

10.1 Reactivity
Decomposes slowly on exposure to water.
Reacts with acids, evolving carbon dioxide (CO2).

10.2 Chemical stability
The product is stable under normal handling and storage conditions.

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.
Exposure to moisture.

10.5 Incompatible materials
Strong acids, strong oxidizing compounds.

10.6 Hazardous decomposition products
Above 160 °C decomposes giving HCl gases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50, Rat, > 8100 mg/kg bw (oral)

Skin corrosion/irritation
Not classified according to EU Directive 67/548/EEC and CLP Regulation (EC) No. 1272/2008.

Serious eye damage/irritation
Not classified according to EU Directive 67/548/EEC and CLP Regulation (EC) No. 1272/2008.

Respiratory or skin sensitization
Considered not to have any sensitising properties, based on the physiological properties of both its constituent ions and the lack of any reported issues.

Germ cell mutagenicity
All test results have proven negative.
Is considered not to be genotoxic.

Carcinogenicity
No evidence of carcinogenic effects.

Reproductive toxicity
No compounds present in the preparation have been identified as having reproductive toxicity properties.

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 data available.

12.2 Persistence and degradability
Compounds present in the preparation would be readily bio-degradable in the environment.

12.3 Bioaccumulative potential
Not applicable.

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 applicable.

12.6 Other adverse effects
Not mentioned in the EC regulations of 4/5/76 concerning discharge of dangerous materials into the water, neither List I or List II.
MgCl, is a component of sea water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment
If recycling spilled product is not practicable, dispose of in compliance with local or national regulations.
• Dissolve in water and neutralise with an acid, under controlled conditions.
• Do not dispose of directly with acids.

Packaging:
• Where possible, recycling is preferred to disposal or incineration.
• Clean container with water, dispose of rinse water in accordance with local or 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

TSCA Inventory
All components are listed or expempted

Water hazard class
WGK0

15.2 Chemical Safety Assessment
Yes.

HMIS Rating

Mg Powder	
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.