

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product name	PO4 Remover
Product number	POL-0500, POL1000, POL-5000
Brand	ReefX®

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

Uses lanthanum chloride to bind phosphates in marine 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)**

- Serious eye damage/eye irritation (chapter 3.3), Cat. 1, H318
- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 3, H412
- Skin sensitizer (chapter 3.4), Cat. 1, H317

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP]****Hazard pictograms****Signal word****Warning****Hazard statement(s)**

H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Components****1. Lanthanum(III) chloride hydrate**

Concentration 10 - 20 % (volume)
EC no. 233-237-5
CAS no. 20211-76-1

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SECTION 4: First aid measures**4.1 Description of first aid measures**

Following inhalation If breathed in, move person into fresh air.
If not breathing, give artificial respiration.
Consult a doctor.

Following skin contact Remove all contaminated clothes and footwear immediately unless stuck to skin.
Wash immediately with plenty of soap and water.
Consult a doctor if a rash develops or if concerned.

Following eye contact Check for and remove any contact lenses.
Open eyes wide apart.
Rinse opened eye with plenty of water for at least 15 minutes.
Get medical attention.

Following ingestion Never give anything by mouth to an unconscious person.
Rinse mouth with water.
Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and signs of poisoning are: Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Headache, Nausea, Vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas, Lanthanum oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and material for containment and cleaning up

Absorb into dry earth or sand.

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid direct contact with the substance.

Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area.

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****8.2 Exposure controls**

Appropriate engineering controls

Ensure there is sufficient ventilation of the area.

Personal protection equipment
Pictograms

Eye and face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Odour	Characteristic odour
Odour threshold	No data available
pH	No data available
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)	Not flammable
Upper/lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.160
Solubilit(ies)	Miscible.
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
Oxidising properties

Not explosive
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong oxidising agents.
Strong acids.

10.6 Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50, Rat, 333 mg/kg (oral)

Relevant hazards for substance:

Serious eye damage/irritation, OPT, Hazardous: calculated.

Skin corrosion/irritation

There may be irritation and redness at the site of contact.

Serious eye damage/irritation

There may be irritation and redness. The eyes may water profusely.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available.

STOT-single exposure

Inhalation - May cause respiratory irritation.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

RTECS: OE4375000.

SECTION 12: Ecological information**12.1 Toxicity**

EC50, 72h, Algae, 28.2 mg/l

EC50, 48h, Daphnia, 2.083 mg/l

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Toxic to aquatic organisms.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Disposal of the product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Disposal of contaminated packaging

Dispose of as unused product.

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
Germany - Water Classification (VwVwS)

WGK 2

15.2 Chemical Safety Assessment

No data available.

HMIS Rating

PO4 Remover	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating

SECTION 16: Other information
Full text of hazard statements referenced in Section 2

H317	May cause an allergic skin reaction
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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.