

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Chemical nature: Aqueous slurry containing lanthanum chloride.
Trade Name: **Clarity Phosphate Remover 1L**
Product Use: To reduce phosphates in swimming pool water.
Supplier: Space Industries Ltd
Street Address: 160 Plunket Ave,
 Wiri, Auckland
 New Zealand
Telephone Number: +64 9 2623902
Facsimile: +64 9 2623948
Email: orders@spaceindustries.co.nz
Website: www.spaceindustries.co.nz
 Emergency Telephone: 0800 764766 (all hours)
Date of preparation: Feb 2026

SECTION 2 - HAZARDS IDENTIFICATION

EPA Water Treatment Chemicals (Corrosive) Group Standard 2020 HSR002681

Hazard Classification

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories

Corrosive to Metals - Category 1
 Acute Toxicity (Oral) - Category 4
 Skin Corrosion/Irritation - Category 2
 Serious Eye Damage/Irritation - Category 2
 Specific Target Organ Toxicity (Single Exposure) - Category 3
 Acute Hazard To The Aquatic Environment - Category 3

Pictograms



Signal Word

Warning

Hazard Statements

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Precautionary Statements

Prevention

P280 Wear protective gloves/eye protection/face protection.
P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.

Response

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P302 + P352 IF ON SKIN: Wash with plenty of water/...
P337 + P313 If eye irritation persists: Get medical advice/attention.
P312 Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth.



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P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

P305 + P351 + P338 IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

P390 Absorb spillage to prevent material-damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local regulations.

Storage

Disposal

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc,%	TWA (mg/m ³)	STEL (mg/m ³)
Lanthanum chloride	10099-58-8	10.5	not set	not set
Water	7732-18-5	to 100	not set	not set

SECTION 4 - FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Seek medical attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor/physician for advice.

IF IN EYES: Immediately flush eyes with running water for several minutes. Remove contact lenses if present and easy to do. If eye irritation persists, get medical advice/attention.

IF ON SKIN: Remove contaminated clothing and wash skin with plenty of soap and running water/shower. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Advice to Doctor Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media:	Use CO2 or dry powder extinguishers.
Flash point:	no data available
Upper Flammability Limit:	no data available
Lower Flammability Limit:	no data available
Autoignition temperature	no data available
Flammability Class:	Not Combustible.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills:

Prevent release into waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of at an approved facility.



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SECTION 7 - HANDLING AND STORAGE

Handling:	Wear protective gloves/eye protection/face protection. Avoid breathing mist/vapours/spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
Storage:	Store securely in a well-ventilated place in the original container. Keep container tightly closed.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

General No specific exposure standards are available for this product.

Exposure Limits No Data Available

Personal Protection Equipment

Respiratory protection: In case of inadequate ventilation, wear respiratory protection (refer to AS/NZS 1715 & 1716).

Eye/face protection: Wear appropriate eye protection to avoid eye contact.

Hand protection: Wear protective gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour:	White aqueous slurry.
Odour:	No odour.
Boiling Point:	Approximately 105°C at 100kPa.
Freezing/Melting Point:	Approximately 3°C.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	No data.
Specific Gravity:	1.21.3
Water Solubility:	Slurry ingredient remains insoluble. Other ingredients are soluble.
pH:	7.8-8.0
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water distribution:	No data
Autoignition temp:	Not applicable - does not burn.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

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Conditions to Avoid: Do not mix with other chemicals.
Incompatibilities: strong alkalis
Fire Decomposition: irritating and/or corrosive gases: including hydrogen chloride and lanthanum oxides
Polymerisation: This product is unlikely to undergo polymerisation processes.

SECTION 11 - TOXICOLOGICAL INFORMATION

General Information

- Acute toxicity: Harmful if swallowed. Ingestion may cause stomach distress, nausea or vomiting.
- Skin corrosion/irritation: Causes skin irritation.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: No information available.
- Germ cell mutagenicity: No information available.
- Carcinogenicity: No information available.
- Reproductive toxicity: No information available.
- STOT (single exposure): May cause respiratory irritation. Symptoms include burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting.
- STOT (repeated exposure): No information available.
- Aspiration toxicity: No information available.

Carcinogen Category

None

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Persistence/Degradability No information available.

Mobility No information available.

Environmental Fate Harmful to aquatic life - Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: dispose of containers in accordance with local regulations

SECTION 14 - TRANSPORT INFORMATION

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations. Proper Shipping Name Lanthanum Chloride Solution

SECTION 15 - REGULATORY INFORMATION

Water Treatment Chemicals (Corrosive) Group Standard 2020 HSR002681

SECTION 16 - OTHER INFORMATION

Issue Date: Feb 2026

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