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SAFETY DATA SHEET – Lanthanum Chloride

1. IDENTIFICATION

Revision Date	July 2023 (*valid for 5 years from this date)*
Product Name	LANTHANUM CHLORIDE
Other Names	LANTHANUM TRICHLORIDE
Uses	Phosphate removal.
Contact Information	Chlorine Discounters 43 Clapham Road, Regents Park NSW 2143 Phone: 02-96454433 Fax: 02-96454030 Email: info@chlorinediscounters.com.au W: www.chlorinediscounters.com.au
Emergency Contact	Managing Director or Operations Manager

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)	Not scheduled
Globally Harmonised System	
Hazard Classification	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Categories	Acute Toxicity (Oral) - Category 4 Acute Hazard To The Aquatic Environment - Category 3 Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity (Single Exposure) - Category 3
Pictograms	
Signal Word	Warning

Hazard Statements	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	H402	Harmful to aquatic life.
Precautionary Statements		
Prevention	P260	Do not breathe mist/vapours.
	P264	Wash exposed skin thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/physician.
	P363	Wash contaminated clothing before reuse.
Storage	P405	Store locked up.
Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.
National Transport Commission (Australia)		Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
Dangerous Goods Classification		NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportions (%)
LANTHANUM CHLORIDE	[10099-58-8]	60.0
WATER	[7732-18-5]	40.0

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth with water. Give large amounts of water to drink. Do not induce vomiting. Seek medical attention immediately.
Eye	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes using an eyewash fountain. Lift upper and lower lids and rinse well under them. In all cases of eye contamination, it is a sensible precaution to seek medical advice.
Skin	In case of contact, immediately wash with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Thoroughly clean contaminated clothing and shoes before reuse. Get medical attention if necessary.
Inhaled	Move to fresh air. If breathing has stopped, admit artificial respiration. Get medical attention immediately. Remove victim from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Advice to Doctor	Symptoms and signs of poisoning are: burning sensation of the skin, Cough, Wheezing, Laryngitis, Shortness of breath, Nausea, Vomiting.
Medical Conditions Aggravated by Exposure	No information available on medical conditions aggravated by exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. If safe to do so, remove containers from the path of fire.
Flammability Conditions	Non-flammable liquid.
Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing media appropriate for surrounding fire. Water may be used to keep fire-exposed containers cool until fire is out.
Hazardous Products of Combustion	Hydrogen chloride gas, Corrosive vapours. Lanthanum oxides.
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Use clean, non-sparking tools and equipment.
Clean up Procedures	Soak up spilled product using absorbent non-combustible material such as sand or soil. When saturated, collect the material and transfer to a suitable, labelled chemical waste container and dispose of promptly. Contain large spills and pump to recover.
Containment	Stop leak if safe to do so.
Decontamination	Wash spill area after material pickup is complete.
Environmental Precautionary Measures	Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.
Evacuation Criteria	Evacuate all unnecessary personnel.
Personal Precautionary Measures	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product fumes.
Storage	Store in cool, well ventilated place away from incompatible materials(Strong bases. Metals). Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Secondary containment is recommended. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC).
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	RESPIRATOR: Air purifying respirator with appropriate cartridge when TLV exceeded (AS1715/1716). EYES: Safety glasses with side shields. DO NOT WEAR CONTACT LENSES (AS1336/1337). HANDS: Gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).
Work Hygienic Practices	Maintain a sink, safety shower and eyewash fountain in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odour	Odourless
Colour	Colourless or light yellow
pH	1 - 3
Vapour Pressure	No Data Available
Boiling Point	No Data Available
Freezing Point	No Data Available
Specific Gravity	1.52-1.58g/cm3
Flash Point	No Data Available
Decomposition Temperature	No Data Available
Appearance	Liquid
Evaporation Rate	No Data Available
Auto Ignition Temp	No Data Available
Potential for Dust Explosion	Product is a liquid
Reactions That Release Gases Vapours	In the event of fire Hydrogen chloride gas, Corrosive vapors. Lanthanum**or** oxides

10. STABILITY AND REACTIVITY

General Information	Reacts vigorously with alkaline material. Thermal decomposition generates: Corrosive vapours.
Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Do not mix with other chemicals. Direct sunlight. Extremely high or low temperatures.
Materials to Avoid	Strong bases, metals.
Hazardous Decomposition Products	May include and are not limited to: Hydrogen chloride, Oxides of lanthanum.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Lanthanum Chloride Heptahydrate (10025-84-0) LD50 Oral rat 4.184 mg/kg LD50 Intraperitoneal rat 106 mg/kg LD50 Intraperitoneal mouse 121 mg/kg LD50 Subcutaneous mouse 2.424 mg/kg LD50 Intravenous mouse 18 mg/kg LD50 Intravenous rabbit 148 mg/kg LD50 Intraperitoneal guinea pig 129 mg/kg
Eye Irritant	May cause Irritation.
Ingestion	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Skin Irritant	May be harmful if absorbed through skin. Causes skin irritation. Can cause irritation to exposed areas of body. Severity of injury depends largely on duration of exposure. Immediate action is necessary to limit severity of injury.
Inhalation	May cause respiratory tract irritation. Symptoms and signs of poisoning are: burning sensation, Cough, wheezing, laryngitis Shortness of breath, Headache, Nausea, Vomiting.
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Eco-toxicity	No ecological information available for this product.
Persistence / Degradability	No information available on persistence/degradability for this product.
Mobility	No information available on mobility for this product
Environmental Fate	Do NOT let product reach waterways, drains and sewers.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	If utilisation or recycling of the product is not possible, it should be disposed of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code	
Proper Shipping Name	Lanthanum Chloride 60% Min
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
National Transport Commission (Australia)	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not scheduled
National/Regional Inventories	Australia (AICS) Listed

16. OTHER INFORMATION

Literature References	No data available.
Sources for Data	No data available.

Legend to Abbreviations and Acronyms

<	less than
<	greater than
ADG	Australian Dangerous Goods Code
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
cm2	square centimetres
CO2	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C ('C)	degrees Celsius
ERMA	Environmental Risk Management Authority
g	gram
g/cm3	grams per cubic centimetre
g/l	grams per litre
HSNO	Hazardous Substance and New Organism
IATA	International Air Transport Association Dangerous Goods Regulations
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods Code
Immiscible	liquids are insoluble in each other
Kg	kilogram
kg/m3	kilograms per cubic metre
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
ltr	Litre
m3	cubic metre
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m3	milligrams per cubic metre
Misc	miscible
Miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present

mm	millimetre
mPa.s	milli Pascal per second
N/A	Not Applicable
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	tonne
TWA	Time Weighted Average
ug/24H	micrograms per 24 hours
UN	United Nations (number)
wt	weight

This SDS summarises Chlorine Discounters best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Chlorine Discounters expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the SDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.