



PRICE CHEMICALS PTY LIMITED

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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Revision Date JULY 2011

Product Name LANTHANUM CHLORIDE 60% MIN

Other Names LANTHANUM SALT DERIVATIVE; PHOSPHATE REMOVER.

Uses Removes phosphates from swimming pools.

Contact Information

| Organisation | Location | Telephone | Ask For |
|--------------------------------------|---|----------------------------|----------------------|
| Price Chemicals Pty Ltd | 10 Pile Rd Somersby NSW 2250 Australia | +61 2 43400088 | Technical Officer |
| Poison Information Centre | Westmead NSW Australia | 131126 | |
| Chemcall 24 Hour Emergency Number | Australia New Zealand | 1800-127406 0800-243622 | |
| National Poisons Centre | New Zealand | 0800-764766 | |

2. HAZARD IDENTIFICATION

NOT Hazardous according to criteria of NOHSC/ASCC.

Risk Phrases No data available.

Safety Phrases No data available.

ERMA New Zealand Approval Code HSNO Hazard Classification

No data available.

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The ERMA Web Site should be consulted for a full list of triggered controls and cited regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients Chemical Entity | CAS Number | Proportions (%) |
|--|--------------|-----------------|
| LANTHANUM SALT DERIVATIVE | [10025-84-0] | 35.0-65.0 |
| ALL OTHER COMPONENTS ARE NON-HAZARDOUS | | 35.0-65.0 |

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed Rinse mouth with water. Give plenty of water to drink provided victim is conscious. Do NOT induce vomiting. Seek immediate medical attention.

Eye Immediately flush eyes with plenty of water for 15 minutes holding eyelids open. Take care not to rinse contaminated water into unaffected eye. Seek immediate medical attention.

Skin Remove contaminated clothing. Wash affected area with soap and water for 15 minutes. Seek immediate medical attention. Wash clothing before reuse.

Inhaled Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Advice to Doctor Treat symptomatically based on individual reactions of patient and judgement of doctor. NOTE: For advice in an emergency, contact a Poisons Information Centre (Australia 13-11-26 or New Zealand 0800-764-766).

Aggravated medical conditions caused by exposure No information available on medical conditions which are aggravated from exposure to this product, however, This product can cause irritation to exposed areas of the body. Severity of injury depends largely on duration of exposure. Immediate action is necessary to limit severity of the injury.

5. FIRE FIGHTING MEASURES

Extinguishing Media In case of fire, use appropriate extinguishing media most suitable for surrounding environment. Use water, dry chemicals, carbon dioxide, sand or foam.

Hazards from Combustion Products Non-combustible liquid. Incompatible materials are unknown. Hydrogen chloride is produced under fire conditions.

Special Protective Precautions and Equipment for Fire Fighters 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). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.

Flammability Conditions Product is a non-flammable liquid.

Additional Information

Hazchem Code N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.

Methods and Materials for Containment and Clean Up Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose.

When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe disposal. Wash spill site once pick up is complete.

7. HANDLING AND STORAGE

Precautions for Safe 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 vapour/fumes. Dry powders can build static electricity charges when subjected to the friction of conveying, mixing or sliding. To prevent ignition, provide adequate precautions, such as electrical grounding, or inert atmospheres when material is used in the presence of flammable materials.

Conditions for Safe Storage (Including Any Incompatibles) Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Incompatible materials are unknown. Keep protected from sources of ignition, direct sunlight and moisture. Store at ambient temperature. Keep out of reach of children. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Type Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Biological Limit Values No information available on biological limit values for this product.

Engineering Controls 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 RESPIRATOR: Wear an approved air purifying respirator with appropriate cartridge where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716). EYES: Safety glasses with side shields (Do NOT wear contact lenses) (AS1336/1337). HANDS: Chemical-resistant gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear to slightly Yellow Liquid

Formula Proprietary

Odour Weak Odour

Vapour Pressure Not applicable.

Vapour Density 4.10

Boiling Point Not applicable.

Melting Point Not applicable.

Solubility in Water More than 10%

Specific Gravity Not applicable.

Flash Point Not applicable.

Purex Phosphate Remover

pH 1-2 ()

Lower Explosion Limit Not applicable.

Upper Explosion Limit Not applicable.

Ignition Temperature Not applicable.

Specific Heat Value Not applicable.

Particle Size Not applicable.

Volatile Organic Compounds (VOC) Content Not applicable.

Evaporation Rate Not applicable.

Viscosity Not applicable.

Percent Volatile Not applicable.

Octanol/Water partition coefficient Not applicable.

Saturated Vapour Concentration Not applicable.

Additional Characteristics Not applicable.

Flame Propagation/Burning Rate of Solid Materials Not applicable.

Properties of Materials That May Initiate or Contribute to Fire Intensity Not applicable.

Potential for Dust Explosion Product is a liquid

Reactions that Release Flammable Gases Not applicable.

Fast of Intensely Burning Characteristics Not applicable.

Non-flammables That Could Contribute Unusual Hazards to a Fire Not applicable.

Release of Invisible Flammable Vapours and Gases Not applicable.

Decomposition Temperature Not applicable.

Additional Information Weight/Gallon: 4.99Kg (11 lbs)

10. STABILITY AND REACTIVITY

Chemical Stability Product is stable under normal conditions of use, storage and temperature.

Conditions to Avoid Avoid excessive heat, direct sunlight, moisture, freezing, high temperatures, and sources of ignition.

Incompatible Materials Incompatible materials are unknown

Hazardous Decomposition Products Hydrogen Chloride is produced under fire conditions.

Hazardous Reactions Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity Data Oral LD50 Rat : 4200mg/Kg Dermal LD50 Rat : 106mg/Kg SCU LD50 Mouse : 2424mg/Kg IV LD50 Mouse : 18mg/Kg

Health Effects - Acute

Swallowed Possible irritant if swallowed.

Eye Contact with eyes may produce irritation.

Skin Possible skin irritant. Can cause irritation to exposed areas of the body. Severity of injury depends largely on duration of exposure. Immediate action is necessary to limit severity of the injury.

Inhaled Product should not be harmful if inhaled.

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available on ecotoxicity for this product.

Persistence and Degradability No information available on persistence/degradability for this product.

Mobility Solubility is appreciable (more than 10%)

Environmental Fate (Exposure) Avoid contaminating waterways, drains and sewers.

Bioaccumulative Potential No information available on bioaccumulation for this product.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose 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 or Incineration Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

Regulation Name ADG Code

UN Number Not applicable.

Shipping Name LANTHANUM CHLORIDE 60% MIN

Dangerous Goods Class Not applicable.

Subsidiary Risk Not applicable.

Pack Group Not applicable.

Precaution for User No data available.

Hazchem Code N/A

EPG Not applicable.

Special Provision Not applicable.

Land Transport (New Zealand)

Regulation Name NZS5433

UN Number Not applicable.

Shipping Name LANTHANUM CHLORIDE 60% MIN

Dangerous Goods Class Not applicable.

Subsidiary Risk Not applicable.

Pack Group Not applicable.

Precaution for User No data available.

Hazchem Code N/A

EPG Not applicable.

Special Provision Not applicable.

Sea Transport

Regulation Name IMDG Code

UN Number No data available.

Shipping Name No data available.

Dangerous Goods Class No data available.

Subsidiary Risk No data available.

Pack Group No data available.

Precaution for User No data available.

Hazchem Code No data available.

EPG No data available.

Special Provision Not applicable.

15. REGULATORY INFORMATION

No data available.

Poisons Schedule N/A

EPG N/A

AICS Name LANTHANUM CHLORIDE (LaCl₃), HEPTAHYDRATE.

NZ Toxic Substance N

HSNO Hazard Classification No data available.

ERMA Approval Code No data available.

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

Purex Phosphate Remover

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

Purex Phosphate Remover

UN United Nations (number)

wt weight

This MSDS summarises Price Chemicals Pty Ltd 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 Price Chemicals Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the MSDS 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.

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