SECTION 1  PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Lanthanum (III) chloride hydrate
PRODUCT NUMBER: 2116
CAS NUMBER: 20211-76-1
SYNONYMS: Lanthanum trichloride hydrate
MANUFACTURER:
Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109
PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2  HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram

Signal Word
Warning

Hazard Statements

H303  May be harmful if swallowed.
H315  Causes skin irritation.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.

Precautionary Phrases

P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS CLASSIFICATION:

Health: 2  Flammability: 0  Reactivity: 0

NFPA RATING:

Health: 2  Fire: 0  Reactivity Hazard: 0

EYE CONTACT: Causes mild to severe irritation to the eyes.
SKIN CONTACT: Causes slight to mild irritation of the skin.
INHALATION: Inhalation of powder can lead to irritation of the respiratory tract.
INGESTION: May be harmful if swallowed.
SECTION 3  COMPOSITION / INFORMATION ON INGREDIENTS

Formula: LaCl₃ • XH₂O

Molecular Weight: 245.27 (anhy.)

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<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<td>Lanthanum (III) chloride hydrate</td>
<td>20211-76-1</td>
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SECTION 4  FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5  FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable or combustible.

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire, this material may emit toxic chlorine and hydrochloric acid fumes.

SECTION 6  ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear approved personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains or allow to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7  HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Avoid formation of dust. Ensure adequate ventilation.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container and keep away from heat.

SECTION 8  EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White crystal

MOLECULAR WEIGHT: 245.27 (anhy.)

BOILING POINT: No data available

MELTING POINT: 92-93°C (dec.)
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

SPECIFIC GRAVITY: No data available
VAPOR PRESSURE: Not applicable
SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Air stable, hygroscopic
HAZARDOUS POLYMERIZATION: None
CONDITIONS TO AVOID: Exposure to moisture
INCOMPATIBILITY: Active metals such as sodium or potassium, strong oxidizing agents, and strong acids
DECOMPOSITION PRODUCTS: Hydrogen chloride gas and Lanthanum oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: For lanthanum chloride (anhydrous): Oral (rat); LD50: 4184 mg/kg. Interperitoneal (rat); LD50: 106 mg/kg. Intravenous (rat); LD50: 4 mg/kg. Intraperitoneal (mouse); LD50: 121 mg/kg. Subcutaneous (mouse); LD50: 2424 mg/kg. Intravenous (mouse); LD50: 18 mg/kg. Intravenous (rabbit); LD50: 148 mg/kg. Intraperitoneal (guinea pig); LD50: 129 mg/kg. Intraperitoneal (frog) LD50: 694 mg/kg. Intraperitoneal (mouse); TDLo: 112 mg/kg. Intratesticular (domestic mammal); TDLo: 5 mg/kg. Morphological transformation (mouse cells); 30 umol/L. Sperm Morphology (Intratesticular – domestic mammal); 5 mg/kg. Effects include somnolence and general depression.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory as LaCl₃ (CAS# 10099-58-8)
SARA 313 COMPONENTS: This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
OSHA: Irritant
SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 311/312 HAZARDS: Acute Health Hazard
SECTION 15  REGULATORY INFORMATION (Cont.)

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right To Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lanthanum (III) chloride hydrate

NEW JERSEY RIGHT TO KNOW COMPONENTS: Lanthanum (III) chloride hydrate

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16  OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 05/14