



Centre Anti-Poison pour le Québec: (800) 463-5060

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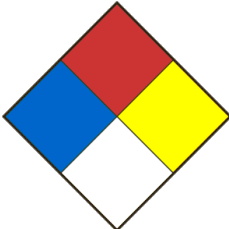
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|                                                                                                                     |                                                                 |                                             |                        |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------|------------------------|
| Product Identifier<br>LANTHANUM CHLORIDE (HEPTAHYDRATE)                                                             |                                                                 | Product Use<br>Laboratory use               |                        |
| Chemical formula<br>LaCl <sub>3</sub> .7H <sub>2</sub> O                                                            |                                                                 | Product code<br>LR-0103                     | Molar weight<br>371,38 |
| Chemical name / Commercial name / Synonymous<br>LANTHANUM CHLORIDE HEPTAHYDRATE, LANTHANUM TRICHLORIDE HEPTAHYDRATE |                                                                 |                                             |                        |
| Supplier's name<br>Laboratoire MAT                                                                                  |                                                                 | Address-Street<br>610, Adanac Street        |                        |
| City<br>Québec                                                                                                      |                                                                 | Province<br>Québec                          |                        |
| Postal code<br>G1C 7B7                                                                                              | Internet<br>www.labmat.com                                      | Phone number<br>418-660-8666 / 800-890-8666 |                        |
| Emergency phone                                                                                                     | CANUTEC: 613-996-6666 CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 |                                             |                        |
| Date SDS<br>9/1/2020                                                                                                | SDS Prepared by<br>Laboratoire MAT                              | E-Mail<br>labmat@labmat.com                 |                        |

## SECTION 02 - HAZARDS IDENTIFICATION

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification WHIMS / GHS</b>                                                   | <p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Serious eye damage/ Eye irritation category 2A</p> <p>Specific target organ toxicity - Single exposure category 3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Signal Word</b>                                                                  | WARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Hazards statements (H)</b>                                                       | <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Precautionary statements (P)</b>                                                 | <p>P261 Avoid breathing dust / fume / gas / mist / vapours / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> |
| <b>PICTOGRAMS</b>                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Other dangers</b>                                                                | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|  | <p><b>Health</b> 1</p> <p><b>Fire</b> 0</p> <p><b>Reactivity</b> 0</p> <p><b>Special danger</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|-------------------------------------------------|------------------------------------------|-------------------|
| Chlorure de lanthane heptahydrate               | 10025-84-0                               | <=100             |

## SECTION 04 - FIRST AID MEASURES

|                                                                        |                                                                                                                                                          |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                                                     | Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention. |
| <b>Skin contact</b>                                                    | Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.                          |
| <b>Inhalation</b>                                                      | Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.                                                    |
| <b>Ingestion</b>                                                       | If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.                      |
| <b>Most important symptoms and effects (acute and delayed)</b>         | Ref. section 11.                                                                                                                                         |
| <b>Immediate medical attention and special treatment, if necessary</b> | In case of medical consultation, keep this sheet available.                                                                                              |
| <b>General advice</b>                                                  | Show this safety data sheet to the doctor in attendance.                                                                                                 |

## SECTION 05 - FIREFIGHTING MEASURES

|                                                                      |                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                                                  | No                                                                                                                                                                                                                                                        |
| <b>Ignition conditions</b>                                           | Not flammable or combustible.                                                                                                                                                                                                                             |
| <b>Suitable extinguishing media</b>                                  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                                                                                                                  |
| <b>Unsuitable extinguishing media</b>                                | Data not available.                                                                                                                                                                                                                                       |
| <b>Hazardous combustion / decomposition products</b>                 | Hazardous decomposition products formed under fire conditions. Hydrogen chloride gas. Lanthanum oxides.                                                                                                                                                   |
| <b>Special fire and explosion hazards</b>                            | May react violently with incompatible products (Ref Section 10).                                                                                                                                                                                          |
| <b>Special protective equipment and precautions for firefighters</b> | Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus. |

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

|                                                                                                            |                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods and materials for containment and cleaning up / Personnel precautions, protective equipment</b> | Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains. |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 07 - HANDLING AND STORAGE

|                                    |                                                                                                                                                                                                                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions for safe storage</b> | Hygroscopic. Store in a cool, dry place. Keep container tightly closed and store away from moisture and incompatible products.                                                                                                                                                                      |
| <b>Methods of handling</b>         | Avoid contact with the skin, eyes and clothes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14) |

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

| Components                        | CAS-No.    | Control        | Value             | Basis                                                                                                                                   |
|-----------------------------------|------------|----------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| LANTHANUM CHLORIDE (HEPTAHYDRATE) | 10025-84-0 | TLV, TWA, STEL | No data available | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)                                                                     |
|                                   |            | TLV, TWA, STEL | No data available | Canada. British Columbia OEL                                                                                                            |
|                                   |            | TLV, TWA, STEL | No data available | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ventilation</b>         | Use fan.                                                                                                                                                                                       |
| <b>Respiratory</b>         | If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.                                                              |
| <b>Gloves</b>              | Handle with gloves.                                                                                                                                                                            |
| <b>Eyes</b>                | Safety goggles with safety shutters.                                                                                                                                                           |
| <b>Shoes</b>               | Safety shoes.                                                                                                                                                                                  |
| <b>Clothing</b>            | Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                     |
| <b>Engineering control</b> | Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values. |

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

|                                              |                                 |
|----------------------------------------------|---------------------------------|
| <b>Physical state</b>                        | Solid.                          |
| <b>Appearance</b>                            | Poudre cristalline blanche.     |
| <b>Odour</b>                                 | inodore.                        |
| <b>Odour threshold</b>                       | Data not available              |
| <b>pH</b>                                    | Donnée non disponible..         |
| <b>Melting point / Freezing point</b>        | 91°C (dec)                      |
| <b>Initial boiling point</b>                 | Data not available              |
| <b>Boiling range</b>                         | Data not available              |
| <b>Flash point</b>                           | Data not available              |
| <b>Evaporation rate</b>                      | Data not available              |
| <b>Flammability</b>                          | No                              |
| <b>Lower flammable / Explosive limit</b>     | Data not available              |
| <b>Upper flammable / Explosive limit</b>     | Data not available              |
| <b>Vapour pressure</b>                       | Data not available              |
| <b>Vapour density</b>                        | Data not available              |
| <b>Relative density</b>                      | Data not available              |
| <b>Solubility</b>                            | Soluble dans l'eau et l'alcool. |
| <b>Partition coefficient water/n-octanol</b> | Data not available              |
| <b>Auto-ignition temperature</b>             | Data not available              |
| <b>Decomposition temperature</b>             | Data not available              |
| <b>Viscosity</b>                             | Data not available              |

## SECTION 10 - STABILITY AND REACTIVITY

|                                                                                                  |                                                                                                         |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                                                                                | Non-reactive under normal conditions.                                                                   |
| <b>Chemical stability</b>                                                                        | Stable under recommended storage conditions.                                                            |
| <b>Possibility of hazardous reactions</b>                                                        | Stable under normal conditions.                                                                         |
| <b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b> | This product quickly absorbs moisture from the air. Avoid excessive heat.                               |
| <b>Incompatible material</b>                                                                     | Strong acids. Strong oxidizing agents, heat and moisture.                                               |
| <b>Hazardous decomposition products</b>                                                          | Hazardous decomposition products formed under fire conditions. Lanthanum oxides. Hydrogen chloride gas. |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### LANTHANUM CHLORIDE (HEPTAHYDRATE)

|                                                  |                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Routes of exposure</b>                        | Ingestion, inhalation, skin and eyes.                                                                                                                                                                                                                                                                                                                        |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.                                                                                                                                                                                                                                                                                                                                     |
| <b>- Eyes</b>                                    | Severe irritation that may cause eye damage.                                                                                                                                                                                                                                                                                                                 |
| <b>- Skin</b>                                    | Irritation and dermatitis.                                                                                                                                                                                                                                                                                                                                   |
| <b>- Inhalation</b>                              | Irritation of the mucous membranes and respiratory tract. Nervous disorders, dizziness, headache, watery eyes, cough, dyspnea, nausea and vomiting.                                                                                                                                                                                                          |
| <b>Acute toxicity (Ingestion)</b>                | Irritation of the mucous membranes. Gastrointestinal disorders, cramps, diarrhea, headache, dizziness, salivation, convulsions, nausea and vomiting.                                                                                                                                                                                                         |
| <b>Chronic exposure effects / symptoms</b>       | Burning sensation, dermatitis, conjunctivitis, nervous disorders, chest pain, cough, dyspnoea, laryngitis, headache, dizziness, tearing, fatigue, nausea and vomiting. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing |
| <b>DL50 (specify species and route of entry)</b> | LD50 Oral - Rat - 4184 mg/kg LD50 Dermal - Data not available.                                                                                                                                                                                                                                                                                               |
| <b>CL50 (specify species and route of entry)</b> | LC50 - Inhalation - Data not available.                                                                                                                                                                                                                                                                                                                      |

## SECTION 12 - ECOLOGICAL INFORMATION

|                                      |                                                                          |
|--------------------------------------|--------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | CE50 - water flea - 0.0432 mg/L - 48 h.                                  |
| <b>Persistence and degradability</b> | Soluble in water. Persistence is unlikely based on information provided. |
| <b>Bioaccumulative potential</b>     | Data not available.                                                      |
| <b>Mobility in soil</b>              | Probable mobility due to its solubility in water.                        |
| <b>Other adverse effects</b>         | Toxic to aquatic life with long lasting effects.                         |

## SECTION 13 - DISPOSAL CONSIDERATIONS

|                               |                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Disposal Method</b>  | Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company. |
| <b>Contaminated Packaging</b> | Dispose of as unused product.                                                                                                                                |

## SECTION 14 - TRANSPORT INFORMATION

|                                   |     |
|-----------------------------------|-----|
| <b>UN Number</b>                  | N/R |
| <b>UN Proper shipping name</b>    |     |
| <b>Transport hazard class(es)</b> |     |
| <b>Packing group</b>              |     |
| <b>Limited quantity index</b>     |     |
| <b>ERAP Index</b>                 |     |
| <b>Special precautions</b>        |     |

## SECTION 15 - REGULATORY INFORMATION

|              |                                                                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHIMS CANADA | Skin corrosion/irritation - Skin irritation category 2<br>Serious eye damage/ Eye irritation category 2A<br>Specific target organ toxicity - Single exposure category 3 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Last Update: 9/1/2020**