



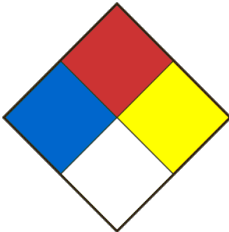
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## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|                                                                                                                        |                                    |                                             |                        |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|------------------------|
| Product Identifier<br>CALCIUM OXALATE MONOHYDRATE                                                                      |                                    | Product Use<br>Laboratory use               |                        |
| Chemical formula<br>$\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$                                                  |                                    | Product code<br>CR-0924                     | Molar weight<br>146,11 |
| Chemical name / Commercial name / Synonymous<br>CALCIUM OXALATE MONOHYDRATE, ETHANEDIOIC ACID CALCIUM SALT MONOHYDRATE |                                    |                                             |                        |
| 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>11/6/2020                                                                                                  | SDS Prepared by<br>Laboratoire MAT | E-Mail<br>labmat@labmat.com                 |                        |

### SECTION 02 - HAZARDS IDENTIFICATION

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification WHIMS / GHS                                                          | Acute toxicity - Oral category 4<br>Acute toxicity - Dermal category 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Signal Word                                                                         | WARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hazards statements (H)                                                              | H302 Harmful if swallowed.<br>H312 Harmful in contact with skin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Precautionary statements (P)                                                        | P264 Wash the areas of the body that have been in contact with the product after handling.<br>P270 Do not eat, drink or smoke when using this product.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.<br>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.<br>P312 Call a POISON CENTER or doctor/physician if you feel unwell.<br>P321 Specific treatment (see section 4 of the SDS and on this label).<br>P330 Rinse mouth.<br>P362 + P364 Take off contaminated clothing and wash it before reuse.<br>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. |
| PICTOGRAMS                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Other dangers                                                                       | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | Health 2<br>Fire 0<br>Reactivity 0<br>Special danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|-------------------------------------------------|------------------------------------------|-------------------|
| Oxalate de calcium monohydrate                  | 5794-28-5                                | <=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, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.                                                                              |
| <b>Most important symptoms and effects (acute and delayed)</b>         | Main symptoms of high exposure: Nausea and vomiting. Gastrointestinal disorders. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. 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>                                           | It is not considered flammable, but can burn at high temperatures.                                                                                                                                                                                        |
| <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 products</b>                                 | Hazardous combustion products formed under fire conditions: Toxic vapors of carbon monoxide and dioxide. Calcium 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. Pick up with a broom, taking care not to scatter dust. Ensure a good ventilation of the premises. When handling, wear appropriate safety equipment. Use a respirator as needed. 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 away from heat, moisture, and incompatible materials.                                                 |
| <b>Methods of handling</b>         | Avoid contact with the skin, eyes and clothes. 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 parameters | Value             |                                                                                                                                         |
|------------------------------|-----------|--------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Calcium oxalate, monohydrate | 5794-28-5 | 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 blanche à beige.                                                                |
| <b>Odour</b>                                 | Donnée non disponible.                                                                 |
| <b>Odour threshold</b>                       | Data not available                                                                     |
| <b>pH</b>                                    | Donnée non-disponible.                                                                 |
| <b>Melting point / Freezing point</b>        | 200°C                                                                                  |
| <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>                      | 2.2g/cm <sup>3</sup>                                                                   |
| <b>Solubility</b>                            | Pratiquement insoluble dans l'eau, soluble dans acide chlorhydrique et acide nitrique. |
| <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. Hygroscopic.                        |
| <b>Possibility of hazardous reactions</b>                                                        | Stable under normal conditions.                                                  |
| <b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b> | Hygroscopic. Avoid contact with incompatible materials and extreme temperatures. |
| <b>Incompatible material</b>                                                                     | Strong oxidizers.                                                                |
| <b>Hazardous decomposition products</b>                                                          | Toxic vapors of carbon monoxide and dioxide. - Calcium oxide.                    |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### CALCIUM OXALATE MONOHYDRATE

|                                                  |                                                                                                                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Routes of exposure</b>                        | Ingestion, inhalation, skin and eyes. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.                                                                                                                                        |
| <b>- Eyes</b>                                    | To our knowledge, the product has not been fully studied.                                                                                                       |
| <b>- Skin</b>                                    | Harmful if absorbed through skin May cause skin irritation. To our knowledge, the product has not been fully studied.                                           |
| <b>- Inhalation</b>                              | To our knowledge, the product has not been fully studied. Harmful if inhaled.                                                                                   |
| <b>Acute toxicity (Ingestion)</b>                | Harmful if swallowed. Gastrointestinal complaints, nausea, vomiting. To our knowledge, the product has not been fully studied.                                  |
| <b>Chronic exposure effects / symptoms</b>       | To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.                                                         |
| <b>DL50 (specify species and route of entry)</b> | LD50 Oral - Data not available; 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>                   | Data not available.                 |
| <b>Persistence and degradability</b> | Data not available.                 |
| <b>Bioaccumulative potential</b>     | Data not available.                 |
| <b>Mobility in soil</b>              | Data not available.                 |
| <b>Other adverse effects</b>         | Do not throw residues in the sewer. |

## 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 | Acute toxicity - Oral category 4<br>Acute toxicity - Dermal category 4 |
|--------------|------------------------------------------------------------------------|

## 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: 11/6/2020