

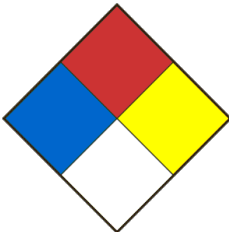


## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|                                                                               |                                                                       |                                             |                             |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------|-----------------------------|
| Product Identifier<br>POTASSIUM OXALATE MONOHYDRATE                           |                                                                       | Product Use<br>Laboratory use               |                             |
| Chemical formula<br>$K_2C_2O_4 \cdot H_2O$                                    |                                                                       | Product code<br>PR-0200                     | Molar weight<br>184,24      |
| Chemical name / Commercial name / Synonymous<br>POTASSIUM OXALATE 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 Lun-Ven 8h-16h |                             |
| Emergency phone                                                               | 418-660-8666 Lun-Ven 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 |                                             |                             |
| Date SDS<br>2/21/2024                                                         | SDS Prepared by<br>Laboratoire MAT                                    |                                             | E-Mail<br>labmat@labmat.com |

## SECTION 02 - HAZARDS IDENTIFICATION

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Classification WHIMS / GHS</b>                                                   | Skin corrosion/irritation - Skin irritation category 2<br>Acute toxicity - Oral category 4<br>Acute toxicity - Dermal category 4<br>Serious eye damage/eye irritation - Eye irritation category 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Signal Word</b>                                                                  | WARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <b>Hazards statements (H)</b>                                                       | H302 Harmful if swallowed.<br>H312 Harmful in contact with skin.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <b>Precautionary statements (P)</b>                                                 | 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>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<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>P332 + P313 If skin irritation occurs: Get medical advice/attention.<br>P337 + P313 If eye irritation persists: Get medical advice/attention.<br>P362 + P364 Take off contaminated clothing and wash it before reuse.<br>P501 Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company. |  |
| <b>PICTOGRAMS</b>                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| <b>Other dangers</b>                                                                | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|  | <b>Health</b> 2<br><b>Fire</b> 0<br><b>Reactivity</b> 0<br><b>Special danger</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%P P) |
|-------------------------------------------------|------------------------------------------|----------------------|
| Oxalate de potassium monohydrate                | 6487-48-5                                | <=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. Burning sensation in throat and chest. Skin irritation. Eyes irritation. Weak pulse. Cardiovascular collapse. Cyanosis (blue to black coloring of the skin and nails). Diarrhea. Hematuria (bloody urine). Kidney damage. 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>Suitable extinguishing media</b>                                  | Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam.                                                                                                                                                                                |
| <b>Unsuitable extinguishing media</b>                                | Data not available.                                                                                                                                                                                                                                       |
| <b>Hazardous combustion products</b>                                 | Hazardous combustion products formed under fire conditions: Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> ) - Potassium oxides.                                                                                                                    |
| <b>Specific hazards of the dangerous product</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. Dilute residues with water, clean and rinse. 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> | 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) Avoid ingestion and inhalation. |

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

| Components                     | CAS-No.   | Control parameters | Value             |                                                                                                                                         |
|--------------------------------|-----------|--------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Potassium oxalate, monohydrate | 6487-48-5 | 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 beige.              |
| <b>Odour</b>                                 | Donnée non disponible.     |
| <b>Odour threshold</b>                       | Data not available         |
| <b>pH</b>                                    | pH(solution à 5%) 7.0-8.5. |
| <b>Melting point / Freezing point</b>        | Data not available         |
| <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>                      | 2.127g/cm <sup>3</sup>     |
| <b>Solubility</b>                            | Soluble dans l'eau.        |
| <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>                                                          | May react violently with incompatible substances. Reducing product, may react violently with oxidizing agents. |
| <b>Chemical stability</b>                                                  | Stable under recommended storage conditions.                                                                   |
| <b>Possibility of hazardous reactions</b>                                  | Reacts with oxidizers and acids.                                                                               |
| <b>Conditions to avoid, including static discharge, shock or vibration</b> | Avoid moisture. Avoid contact with incompatible materials.                                                     |
| <b>Incompatible materials</b>                                              | Acids. Strong oxidizers.                                                                                       |
| <b>Hazardous decomposition products</b>                                    | Toxic vapors of carbon monoxide and dioxide. - Carbon oxides, Potassium oxides.                                |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### POTASSIUM OXALATE MONOHYDRATE

|                                                  |                                                                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Routes of exposure</b>                        | Ingestion.                                                                                                                                                                             |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.                                                                                                                                                               |
| <b>- Eyes</b>                                    | Irritation.                                                                                                                                                                            |
| <b>- Skin</b>                                    | Irritation.                                                                                                                                                                            |
| <b>- Inhalation</b>                              | Irritation of mucous membranes and upper respiratory system, esophagus and bronchi.                                                                                                    |
| <b>Acute toxicity (Ingestion)</b>                | May cause severe burns, bruising, central nervous and cardiac depression and death.                                                                                                    |
| <b>Chronic exposure effects / symptoms</b>       | Hypocalcemia, kidney stones, tetany. Prolonged contact with oxalate solutions produces skin lesions which worsen over time and which can lead to cyanosis with gangrenous progression. |
| <b>DL50 (specify species and route of entry)</b> | Data based on the anhydrous product: LD50 Dermal - Rat - 375 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>Available ecological information</b> | No |
|-----------------------------------------|----|

## SECTION 13 - DISPOSAL CONSIDERATIONS

|                               |                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Disposal Method</b>  | Dispose of contents and container in accordance with local, regional and national 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

|                     |                                                                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WHIMS CANADA</b> | Skin corrosion/irritation - Skin irritation category 2<br>Acute toxicity - Oral category 4<br>Acute toxicity - Dermal category 4<br>Serious eye damage/eye irritation - Eye irritation category 2 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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: 2/21/2024**