



Centre Anti-Poison pour le Québec: (800) 463-5060  
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## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|                                                                                                                                                                                                                                                                                                                 |                                    |                                             |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|------------------------|
| Product Identifier<br>E.D.T.A. (DISODIUM SALT) (0.0575 M / 0.115N)                                                                                                                                                                                                                                              |                                    | Product Use<br>Laboratory use               |                        |
| Chemical formula<br>$C_{10}H_{14}N_2O_8Na_2 \cdot 2H_2O$                                                                                                                                                                                                                                                        |                                    | Product code<br>ES-0628                     | Molar weight<br>372,24 |
| Chemical name / Commercial name / Synonyms<br>Ethylenediaminetetraacetic acid disodium salt dihydrate, EDTA. disodique dihydrate, disodium edetate, disodium (ethylene dinitrilo) tetraacetic acid, ethylene diaminetetraacetic acid, edetic acid disodium salt, ethylenebis (iminodiacetic acid) disodium salt |                                    |                                             |                        |
| 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>7/23/2019                                                                                                                                                                                                                                                                                           | SDS Prepared by<br>Laboratoire MAT | E-Mail<br>labmat@labmat.com                 |                        |

### SECTION 02 - HAZARDS IDENTIFICATION

|                              |                                                                                                                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification WHIMS / GHS   | Specific Target Organ Toxicity - Repeated exposure category 2                                                                                                                                                                                                                             |
| Signal Word                  | WARNING                                                                                                                                                                                                                                                                                   |
| Hazards statements (H)       | H373 May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                   |
| Precautionary statements (P) | P260 Do not breathe dust / fume / gas / mist / vapours / spray.<br>P314 Get medical advice/attention if you feel unwell.<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 1<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 (%) |
|-------------------------------------------------|------------------------------------------|-------------------|
| E.D.T.A. (DISODIUM SALT)                        | 6381-92-6                                | 2                 |

## 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. Do NOT induce vomiting. 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>                                | Not applicable.                                                                                                                                                                                                                                           |
| <b>Hazardous combustion / decomposition products</b>                 | Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx). - Sodium 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. Absorb residues with vermiculite or other absorbents. Ensure a good ventilation of the premises. Dilute residues with water, clean and rinse. When handling, wear appropriate safety equipment. Dispose of residues in a container provided for the disposal of hazardous materials. |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 07 - HANDLING AND STORAGE

|                                    |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions for safe storage</b> | Air-, heat-, and moisture-sensitive. Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products.                                                                                                                                                            |
| <b>Methods of handling</b>         | Always open containers slowly to allow any excess pressure to vent. 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.   | Value             | Control<br>Citric acid |                                                                                                                                         |
|-------------------------------|-----------|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| EDTA Disodium salt, dihydrate | 6381-92-6 | No data available | TLV, TWA, STEL         | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)                                                                     |
|                               |           | No data available | TLV, TWA, STEL         | Canada. British Columbia OEL                                                                                                            |
|                               |           | No data available | TLV, TWA, STEL         | 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.                                                                                                                                                                                       |
| <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>                        | Liquid.                               |
| <b>Appearance</b>                            | Liquide incolore.-                    |
| <b>Odour</b>                                 | inodore.                              |
| <b>Odour threshold</b>                       | Data not available                    |
| <b>pH</b>                                    | 6.                                    |
| <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>Solubility</b>                            | Dans l'eau: 108 g/L @ 20 °C (pH 5.3). |
| <b>Vapour density</b>                        | Data not available                    |
| <b>Relative density</b>                      | 1.02 (théorique)g/ml                  |
| <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> | Avoid contact with incompatible materials. Avoid excessive heat. Avoid dust formation.                                                        |
| <b>Incompatible material</b>                                                                     | When pure, the product reacts with the following products: Strong oxidants.                                                                   |
| <b>Hazardous decomposition products</b>                                                          | Hazardous decomposition products formed under fire conditions. Toxic vapors of nitrogen oxides, monoxide and carbon dioxide. - Sodium oxides. |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### E.D.T.A., DISODIUM SALT, DIHYDRATE

|                                                  |                                                                                                                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Routes of exposure</b>                        | Ingestion, inhalation, skin and eyes.                                                                                                                                     |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.                                                                                                                                                  |
| <b>- Eyes</b>                                    | Irritation and tearing.                                                                                                                                                   |
| <b>- Skin</b>                                    | Irritation.                                                                                                                                                               |
| <b>- Inhalation</b>                              | Irritation of the mucous membranes and respiratory tract. Nervous disorders, cough, dyspnea, headache, dizziness, nausea and vomiting.                                    |
| <b>Acute toxicity (Ingestion)</b>                | Irritation of the mucous membranes. Nervous disorders, liver damage, gastrointestinal disorders, cramps, diarrhea, headache, dizziness, convulsions, nausea and vomiting. |
| <b>Chronic exposure effects / symptoms</b>       | Burning sensation, nervous disorders, chest pain, cough, dyspnoea, laryngitis, dizziness, headache, tiredness, loss of appetite, nausea and vomiting.                     |
| <b>DL50 (specify species and route of entry)</b> | LD50 Oral - Rat - 2800 mg/kg. LD50 Dermal - Data not available.                                                                                                           |
| <b>CL50 (specify species and route of entry)</b> | Data not available.                                                                                                                                                       |

### SUMMARY

|                                             |                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Acute exposure effects / Symptoms:</b>   | By exposure routes below.                                                                             |
| <b>Ingestion</b>                            | To our knowledge, the product has not been fully evaluated                                            |
| <b>Inhalation</b>                           | To our knowledge, the product has not been fully evaluated                                            |
| <b>Skin</b>                                 | To our knowledge, the product has not been fully evaluated                                            |
| <b>Eyes</b>                                 | To our knowledge, the product has not been fully evaluated                                            |
| <b>Chronic exposure effects / Symptoms:</b> | To our knowledge, the product has not been fully evaluated                                            |
| <b>ETA Mix (Estimated Acute Toxicity)</b>   | LD50: Oral Rat - >5000 mg/kg<br>LD50: Dermal - No data availble<br>LC50: Inhalation -No data availble |

## SECTION 12 - ECOLOGICAL INFORMATION

|                                      |                                                                                                                                                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | E.D.T.A., disodium salt, dihydrate. Toxicity to fish: LC50: Leuciscus idus(ide) - > 500 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna: > 100 mg/l - 24 h. Toxicity to algae: EC50 - Algae: 10 - 100 mg/l - 72 h. |
| <b>Persistence and degradability</b> | Data not available. Expected to be biodegradable                                                                                                                                                                                                          |
| <b>Bioaccumulative potential</b>     | Data not available.                                                                                                                                                                                                                                       |
| <b>Mobility in soil</b>              | Data not available.                                                                                                                                                                                                                                       |
| <b>Other adverse effects</b>         | Data not available.                                                                                                                                                                                                                                       |

## SECTION 13 - DISPOSAL CONSIDERATIONS

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

## SECTION 14 - TRANSPORT INFORMATION

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

## SECTION 15 - REGULATORY INFORMATION

|              |                                                               |
|--------------|---------------------------------------------------------------|
| WHIMS CANADA | Specific Target Organ Toxicity - Repeated exposure 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.

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