



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

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|--|------------------------------------|---|------------------------|
| Product Identifier SODIUM CARBONATE 0.5M (1.0 N) | | Product Use Laboratory use | |
| Chemical formula Na ₂ CO ₃ | | Product code SS-0733 | Molar weight 105,99 |
| Chemical name / Commercial name / Synonymous SODIUM CARBONATE ANHYDROUS, DISODIUM CARBONATE, CARBONIC ACID DISODIUM SALT, SODA ASH, SODA CALCINED, SOLVAY SODA, CRYSTOL CARBONATE, TRONA. | | | |
| Supplier's name Laboratoire MAT | | Address-Street 610, Adanac Street | |
| City Québec | | Province Québec | |
| Postal code G1C 7B7 | Internet www.labmat.com | Phone number 418-660-8666 / 800-890-8666 | |
| Emergency phone | CANUTEC: 613-996-6666 | CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 | |
| Date SDS 7/8/2022 | SDS Prepared by Laboratoire MAT | E-Mail labmat@labmat.com | |

SECTION 02 - HAZARDS IDENTIFICATION

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| Classification WHIMS / GHS | Serious eye damage/ Eye irritation category 2A |
| Signal Word | WARNING |
| Hazards statements (H) | H319 Causes serious eye irritation. |
| Precautionary statements (P) | <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> |
| PICTOGRAMS | |
| Other dangers | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme) |
| | <p>Health 1</p> <p>Fire 0</p> <p>Reactivity 0</p> <p>Special danger</p> |

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|---|--|-------------------|
| Carbonate de sodium | 497-19-8 | 5 |

SECTION 04 - FIRST AID MEASURES

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| Eye contact | 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. |
| Skin contact | Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention. |
| Inhalation | Move the unwell person to the fresh air. If breathing is difficult, give oxygen. If the victim is not breathing, give artificial respiration. Consult a physician. |
| Ingestion | Rinse mouth with water. If the person is conscious, drink water and induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician. |
| Most important symptoms and effects (acute and delayed) | Main symptoms of high exposure: Skin, eye and respiratory system irritation. Vomiting. Diarrhea. Abdominal pain. Ref. section 11. |
| Immediate medical attention and special treatment, if necessary | In case of medical consultation, keep this sheet available. |
| General advice | Show this safety data sheet to the doctor in attendance. |

SECTION 05 - FIREFIGHTING MEASURES

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| Flammability | No |
| Ignition conditions | Not flammable or combustible. |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | Data not available. |
| Hazardous combustion products | Hazardous combustion products formed under fire conditions: - Carbon oxides, Sodium oxides. |
| Special fire and explosion hazards | When concentrated, the product reacts according to the following characteristics: Anhydrous sodium carbonate may react violently with sulfuric acid, atomized aluminum, fluorine, lithium and phosphorus pentoxide. May react violently with incompatible products (Ref Section 10). |
| Special protective equipment and precautions for firefighters | 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

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| Methods and materials for containment and cleaning up / Personnel precautions, protective equipment | Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. |
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SECTION 07 - HANDLING AND STORAGE

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| Conditions for safe storage | Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Keep container tightly closed and store away from heat, moisture, and incompatible products. |
| Methods of handling | Avoid ingestion and inhalation. 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. | Value | Control parameters | Basis |
|------------------------------|----------|-------------------|--------------------|---|
| Sodium carbonate (Anhydrous) | 497-19-8 | 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 |

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| Ventilation | Fan. |
| Respiratory | If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply. |
| Gloves | Handle with gloves. |
| Eyes | Safety goggles with safety shutters. |
| Shoes | Safety shoes. |
| Clothing | Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Engineering control | 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

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| Physical state | Liquid. |
| Appearance | Liquide incolore. |
| Odour | inodore. |
| Odour threshold | Data not available |
| pH | 12 à 106 g/l à 25°C (Na ₂ CO ₃). |
| Melting point / Freezing point | Data not available |
| Initial boiling point | Data not available |
| Boiling range | Data not available |
| Flash point | Data not available |
| Evaporation rate | Data not available |
| Flammability | No |
| Lower flammable / Explosive limit | Data not available |
| Upper flammable / Explosive limit | Data not available |
| Vapour pressure | Data not available |
| Solubility | Soluble dans l'eau (28.5%). Insoluble dans l'alcool.. |
| Vapour density | Data not available |
| Relative density | 1.05 g/ml (théorique). |
| Partition coefficient water/n-octanol | Data not available |
| Auto-ignition temperature | Data not available |
| Decomposition temperature | Data not available |
| Viscosity | Data not available |

SECTION 10 - STABILITY AND REACTIVITY

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| Reactivity | May react violently with incompatible substances. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | May react violently with incompatible substances. |
| Conditions of instability (Including sensitivity to shock / static discharge / vibration) | Avoid contact with incompatible materials and extreme temperatures. |
| Incompatible material | When pure, the product reacts with the following products: Strong oxidizers. Acids. Fluorine. Aluminum. Exposure to moisture. |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and dioxide. - Sodium oxides. |

SECTION 11 - TOXICOLOGICAL INFORMATION

SODIUM CARBONATE (ANHYDROUS)

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| Routes of exposure | Ingestion, inhalation, skin and eyes. |
| Acute exposure effects / symptoms: | By exposure route below. |
| - Eyes | Irritation and tearing. |
| - Skin | Irritation and dermatitis. Prolonged skin contact may cause an allergic reaction characterized mainly by erythematous lesions. |
| - Inhalation | Irritation of the mucous membranes and respiratory tract. Nervous disorders, respiratory allergy, cough, dyspnea, headache, dizziness, watery eyes, nausea and vomiting. |
| Acute toxicity (Ingestion) | Irritation of the mucous membranes. Gastrointestinal disorders, cramps, diarrhea, headache, dizziness, convulsions, nausea and vomiting. |
| Chronic exposure effects / symptoms | Burning sensation, dermatitis, nervous disorders, respiratory and skin allergies, pain in the chest, cough, dyspnea, headache, vertigo, tearing, confusion, irritability, erythema, fatigue, nausea and vomiting. |
| DL50 (specify species and route of entry) | LD50 Oral - Rat - 2,800 mg/kg. LD50 Dermal - Rabbit - 2000 mg/kg |
| CL50 (specify species and route of entry) | LC50 - Inhalation - Rat 2.3 mg/l - 2 h |

SUMMARY

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| Acute exposure effects / Symptoms: | By exposure routes below. |
| Ingestion | To our knowledge, the product has not been fully evaluated |
| Inhalation | To our knowledge, the product has not been fully evaluated |
| Skin | To our knowledge, the product has not been fully evaluated |
| Eyes | To our knowledge, the product has not been fully evaluated |
| Chronic exposure effects / Symptoms: | To our knowledge, the product has not been fully evaluated |
| ETA Mix (Estimated Acute Toxicity) | LD50 Oral: > 5000 mg/kg - Rat - LD50 Dermal: > 5000 mg/kg - Rabbit LC50 Inhalation: 45.7mg/L - 2h - Rat |

SECTION 12 - ECOLOGICAL INFORMATION

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| Ecotoxicity | Sodium carbonate: Toxicity to fish: CL50 - Lepomis macrochirus - 300 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: CE50 - Daphnia magna (Grande daphnie) - 265 mg/l - 48 h |
| Persistence and degradability | Data not available. |
| Bioaccumulative potential | Data not available. |
| Mobility in soil | Probable mobility due to its solubility in water. |
| Other adverse effects | Data not available. |

SECTION 13 - DISPOSAL CONSIDERATIONS

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| 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

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| 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

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| WHIMS CANADA | Serious eye damage/ Eye irritation category 2A |
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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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