


1 – IDENTIFICATION

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| IDENTIFIER | Soda ash Osmose |
| PRODUCT CODE | |
| RECOMMENDED USE | Fortifying powder for hard water. |
| RESTRICTIONS ON USE | |
| SUPPLIER / MANUFACTURER | TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc G0L 2G0 418-970-0889 |
| EMERGENCY TELEPHONE | 418-970-0889 Monday to Friday, 9h00 to 17h00 |

2 – HAZARD IDENTIFICATION

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| CLASSIFICATION | Eye irritation 2A | |
| LABEL ELEMENTS |  | |
| SIGNAL WORD | WARNING | |
| HAZARD STATEMENT | H319 | Causes serious eye irritation. |
| PRECAUTIONARY STATEMENTS – PREVENTION | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| PRECAUTIONARY STATEMENTS – RESPONSE | P305+P351+P338 P337+P313 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| PRECAUTIONARY STATEMENTS – STORAGE | | |
| PRECAUTIONARY STATEMENTS - ELIMINATION | | Dispose contents/containers according to municipal, provincial, and federal regulations. |
| OTHER HAZARDS | P501 | |

3 – COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL NAME | C.A.S. | CONCENTRATION |
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| Sodium carbonate | 497-19-8 | 80 – 100 * |

* TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

4 – FIRST AID MEASURES

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| ROUTE OF EXPOSURE | Inhalation, eyes, skin, ingestion |
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| INHALATION | IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician. |
| DERMAL | IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. |
| OCULAR | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| ORAL | NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care. |
| NOTE TO PHYSICIAN | Specific treatment: Treat symptomatically. |

5 – FIRE-FIGHTING MEASURES

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| SUITABLE EXTINGUISHING MEDIA | Use an extinguishing media appropriate for the surrounding fire. |
| UNSUITABLE EXTINGUISHING MEDIA | Direct water jet. |
| SPECIFIC HAZARDS | Sodium oxides, carbon oxides, acrid smoke. |
| PROTECTIVE EQUIPMENT | Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus. |
| PRECAUTIONS | Do not let water run-off reach sewers, ditches, or waterways. |

6 – ACCIDENTAL RELEASE MEASURES

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| PROTECTIVE EQUIPMENT | Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel. |
| CONTAINMENT AND CLEAN UP | Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary. |
| ENVIRONMENTAL PRECAUTIONS | Avoid entering sewers, waterways, or restricted areas. Eliminate according to municipal, provincial, and federal regulations. |

7 – HANDLING AND STORAGE

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| HANDLING | Containers must be identified correctly. Handle in a well-ventilated area. Avoid breathing dust, vapours, or mists. Avoid contact with eyes, skin, and clothes. Keep containers closed when not in use. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking, or smoking. Do not eat, drink, or smoke while using the product or in proximity. Wash contaminated clothing before reuse. |
| STORAGE | Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed. |
| INCOMPATIBLE | Acids, aluminium, aluminium powder, fluorine, lithium, 2,4,6-trinitrotoluene. |

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| MATERIALS | |
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8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

| CHEMICAL NAME | C.A.S. | SOURCE | VALUE |
|------------------|----------|--------|------------------------|
| Sodium carbonate | 497-19-8 | | No established limits. |

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| ENGINEERING CONTROLS | Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels to an acceptable level. |
| RESPIRATORY PROTECTION | Maintain atmospheric concentrations below exposure limits. If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator. |
| PROTECTIVE EQUIPMENT AND CLOTHING | Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours, or dust to contact eyes. Ensure that eyewash stations, showers and cleaning stations are near to workstation. |
| OCULAR PROTECTION | Chemical goggles; also wear a face shield if splashing hazard exists. |
| GENERAL HYGIENE RECOMMENDATIONS | Ensure that eyewash stations and safety showers are proximal to the work-station location. Avoid production of high concentrations of dust, vapours, or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours, or mists. Never eat, drink, or smoke near workstations. Good hygiene is recommended after using this product. Clean clothing before reuse. |

9 – PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE | Powder, white. |
| ODOUR | Odourless. |
| ODOUR TRESHOLD | Not available. |
| pH (sol. 1%) | 11.3 – 11.4 |
| MELTING / FREEZING POINT | 851 – 854 °C |
| INITIAL BOILING POINT | Not available. |
| FLASH POINT | Not applicable. |
| EVAPORATION RATE | Not available. |
| FLAMMABILITY | Not flammable. |
| LOWER FLAMMABLE/EXPLOVISE LIMIT | Not applicable. |
| UPPER FLAMMABLE/EXPLOSIVE LIMIT | Not applicable. |
| VAPOUR PRESSURE | Not available. |
| VAPOUR DENSITY | Not available. |
| RELATIVE DENSITY | Not available. |
| SOLUBILITY (in water) | 212.5 g/L @ 20°C |
| PARTITION COEFFICIENT (n-octanol/water) | Not available. |
| AUTO-IGNITION TEMPERATURE | Not available. |
| DECOMPOSITION TEMPERATURE | Not available. |

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| VOC | Not applicable. |
| VISCOSITY | Not available. |

10 – STABILITY AND REACTIVITY

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| REACTIVITY | Stable under recommended usage. |
| CHEMICAL STABILITY | Stable under normal usage conditions. |
| HAZARDOUS REACTIONS | Polymerization will not occur. Dust may form explosive mixture in air. |
| CONDITIONS TO AVOID | Exposure to air or moisture over prolonged periods. Incompatible materials. |
| INCOMPATIBLE MATERIALS | Acids, aluminium, aluminium powder, fluorine, lithium, 2,4,6-trinitrotoluene. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Sodium oxides, carbon oxides. |
| ADDITIONAL INFORMATION | None. |

11 – TOXICOLOGICAL INFORMATION

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| ACUTE EFFECTS | |
| INHALATION | Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. |
| DERMAL | Prolonged contact may cause redness and irritation. |
| OCULAR | Causes serious eye irritation. Redness, pain, tearing. May cause lesions to the cornea. |
| ORAL | Ingestion may cause stomach discomfort. |
| CHRONIC EFFECTS | |
| INHALATION | No data. |
| DERMAL | No data. |
| OCULAR | No data. |
| ORAL | No data. |
| ADDITIONAL INFORMATION | |
| CARCINOGENIC EFFECTS (IARC) | Not classified. |
| MUTAGENIC EFFECTS | No data. |
| TERATOGEN EFFECTS | No data. |
| REPRODUCTION | No data. |
| SENSIBILISATION | No data. |
| TARGET ORGANS | No data. |
| AGGRAVATED CONDITIONS | No data. |
| SYNERGISTIC SUBSTANCES | No data. |

| CHEMICAL NAME | C.A.S. | LD50 ORAL mg/kg | LD50 DERMAL mg/kg | LC50 INHALATION |
|------------------|----------|--------------------|----------------------|-------------------------------------|
| Sodium carbonate | 497-19-8 | 2390, rat | >2000, rabbit | 2300 mg/m ³ , rat, 2h |

12 – ECOLOGICAL INFORMATION

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| Sodium carbonate | 497-19-8 |
| LC50 300 mg/L, 96h | Lepomis |
| EC50 200-227 mg/L, 48h | Ceriodaphnia sp. |
| EC50 242 mg/L, 5d | Algea |

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| PERSISTENCE AND DEGRADABILITY | Not available. |
| BIOACCUMULATIVE POTENTIAL | Not available. |
| SOIL MOBILITY | Not available. |
| OTHER ADVERSE EFFECTS | Not available. |
| ADDITIONAL INFORMATION | Do not let material or fire-fighting water run-off enter sewers or waterways. Obstruct drains and ditches. Affected areas must be cleaned and restored to their original conditions or to the satisfaction of the authorities. |

13 – DISPOSAL CONSIDERATIONS

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| DISPOSAL METHOD | Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. |
| CONTAMINATED PACKAGING | Empty containers should be recycled or disposed of through an approved waste management facility. |

14 – TRANSPORT INFORMATION

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| TRANSPORT OF DANGEROUS GOODS (CANADA) | |
| Not regulated for transport. | |
| MARINE POLLUTANT | No. |
| SPECIAL PRECAUTIONS | Avoid exposure to air or moisture over prolonged periods, incompatible materials. |

15 – REGULATORY INFORMATION

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| CANADA | |
| CEPA | All components of this product are either listed or exempt from listing on the Domestic substances List (DSL). |
| USA | |
| TSCA | All components of this product are either listed or exempt from listing on the Toxic Substances Control Act (TSCA) Inventory. |

16 – OTHER INFORMATION

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| VERSION | 1.0 |
| DATE | 23 juin 2021 |
| PREPARED BY | LABORATOIRE CAMPEAU INC. 61 rue des Menuisiers, local 106 Sainte-Anne-des-Plaines, QC J0N 1H0 450-940-0644 |
| ABBREVIATIONS | ABBREVIATIONS |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AIHA | American Industrial Hygiene Association |
| CAS | Chemical Abstract Service |
| CEPA | Canadian Environmental Protection Act |
| CIRC | Centre International pour la Recherche sur le Cancer |
| CL / LC | Concentration létale /Lethal concentration |
| DL / LD | Dose létale / Lethal dose |
| CE / EC | Concentration efficace / Effective concentration |
| IARC | International Agency for Research on Cancer |
| LCPE | Loi Canadienne sur la Protection de l'Environnement |
| LES/NDSL | Liste extérieure des substances / Non domestic substances list |
| LIS/DSL | Liste intérieure des substances / Domestic substances list |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program (U.S.A.) |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |
| SIMDUT | Système d'information sur les matières dangereuses utilisées au travail |
| STEL | Short-term Exposure Limit |
| STOT | Specific target organ toxicity |
| TCOC | Toxicité pour certains organes cibles |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| USEPA | United States Environmental Protection Agency |
| VECD | Valeur exposition courte durée |
| VEMP | Valeur exposition moyenne pondérée |
| WHMIS | Workplace Hazardous Materials Information System |
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