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FOR CHEMICAL EMERGENCY

Involving Shipping and Handling Spills, Leak, Fire, Exposure or Accident

Call CHEMTREC 1-800-424-9300

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

Section 1 - Product Identification

Product Name: Sodium Carbonate/Soda Ash, all sizes

Product ID: 0202X

Section 2 - Composition/Information on Ingredients**CHEMICAL NAME****CAS REG. #**

Sodium Carbonate Anhydrous

497-19-8

Section 3 - Hazardous Identification**EMERGENCY OVERVIEW:** White, odorless, granular solid. Product is non-combustible. Reacts with acid to release carbon dioxide gas and heat. Irritating to the eyes and continuous contact may irritate the skin. Not expected to be toxic to the environment, nor to aquatic organisms.**POTENTIAL HEALTH EFFECTS:** Direct contact with the product causes irritation of the eyes and continuous contact may cause skin irritation (red, dry, cracked skin). Excessive levels of airborne dust may irritate the mucous membranes and upper respiratory tract.**Section 4 - First Aid Measures****EYES:** Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.**INGESTION:** Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.**INHALATION:** Remove to fresh air. If breathing difficultly or discomfort occurs and persists, obtain medical attention.**Notes to Medical Doctor:** While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.**Section 5 - Fire Fighting Measures****EXTINGUISHING MEDIA:** Water, water fog, carbon dioxide (CO₂), dry chemical**FIRE/EXPLOSION HAZARDS:** not applicable**FIRE FIGHTING PROCEDURES:** Wear full protective clothing and self-contained breathing apparatus.**FLAMMABLE LIMITS:** not applicable**HAZARDOUS COMBUSTION PRODUCTS:** Fumes of sodium oxide.**Section 9 - Accidental Release Measures****CONTAINMENT:** Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.**CLEAN UP:** This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations.**NOTIFICATION REQUIREMENTS:** Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.**Section 7 - Handling and Storage****HANDLING:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep material out of lakes, streams, ponds and sewer drains.**STORAGE:** Store in cool, dry area, away from acids.**Section 8 - Exposure Controls / Personal Protection****PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE:** Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.**RESPIRATORY:** Whenever dust is in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear approved respirators or dust masks to protect them against airborne dust.**PROTECTIVE CLOTHING:** Dry product is generally non-irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation after long exposures when moisture is present. Under such conditions, gloves and long-sleeved clothing are recommended to minimize skin contact.**ADDITIONAL EXPOSURES GUIDELINES:** Federal guidelines treat the ingredients in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure.

Section 9 - Physical and Chemical Properties

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| ODOR: | Odorless | APPEARANCE: | White, granular solid |
| BOILING POINT: | Decomposes | FLASH POINT: | Non-combustible |
| FREEZING POINT: | 851° C (1564° F) | OXIDIZING PROPERTIES: | not applicable |
| PERCENT VOLATILE: | not applicable | EVAPORATION RATE: | not applicable |
| pH: | 11.4 (1% solution) | SOLUBILITY IN WATER: | 33.2% maximum |
| DENSITY/WEIGHT PER VOLUME: | (g/mL) Dense Grades = 0.86 - 1.12; Light Grades = 0.70 - 0.90 | | |

Section 10 - Stability and Reactivity

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| CONDITIONS TO AVOID: | Contact with acids except under controlled conditions. |
| STABILITY: | Stable |
| POLYMERIZATION: | Will not occur |
| INCOMPATIBLE MATERIALS: | Reacts with acids with release of large volumes of carbon dioxide gas and heat. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Heated to decomposition, it emits fumes of sodium oxide. |
| MATERIALS TO AVOID: | Aluminum powder, acids, fluorine, molten lithium |

Section 11 - Toxicological Information

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| EYE EFFECTS: | Severe irritant (rabbit) (Toxicology 23:281 (1982)). | | |
| SKIN EFFECTS: | Non-irritating to intact skin. Minor irritation may occur on abraded skin. (Toxicol. Appl. Pharmacol. 31:481 (1975)) | | |
| DERMAL LD50: | No data available for the product. | | |
| ORAL LD50: | Harmful if swallowed. | | |
| INHALATION LC50: | 2.3mg/1 (2h) (rat) (Environ, Res. 31:138 (1983)). | | |
| SENSITIZATION: | 0.25% sodium carbonate: Non-sensitizing (human) (Toxicol. Appl. Pharmacol. 31:481 (1975)). | | |
| ACUTE EFFECTS FROM OVEREXPOSURE: | May cause severe irritation of the eyes, including corneal opacities. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract. No significant acute toxicological effects expected. | | |
| EYES: | Immediately flush with cool, running water for at least 15 minutes. | | |
| SKIN: | Immediately wash skin and clothing with soap and water. | | |
| INHALATION: | Remove to fresh air. If breathing is difficult, get medical attention. | | |
| INGESTION: | Rinse mouth at once; give vinegar or juice of lemon, orange or grapefruit. Do not induce vomiting. | | |
| CARCINOGENICITY: | NTP: not listed | IARC: not listed | OSHA: not listed other: (ACGIH) not listed |

Section 12 - Ecological Information

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| ECOTOXICOLOGICAL: | 96-hour LC50 = 265-565 mg/L (daphnia magna) (low toxicity) | 96-hour LC50 = 300-320 mg/L (bluegill sunfish) (low toxicity) |
| CHEMICAL FATE: | Biodegradability does not apply to inorganic substances. No significant toxicity to aquatic organisms is expected. | |

Section 13 - Disposal Method

DISPOSAL METHOD: As purchased, this product is not a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). Non-hazardous waste may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

Section 14 - Transportation Information

US DEPARTMENT OF TRANSPORTATION (DOT): not regulated
INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG): not regulated

Section 15 - Regulatory Information

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| SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) | |
| SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A): | not listed |
| SECTION 311 HAZARD CATEGORIES (40 CFR 370): | Immediate (Acute) Health Hazard |
| SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370): | The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lb; however, this product contains the following ingredients with a TPQ of less than 10,000 lb: None |
| SECTION 313 HAZARD REPORTABLE INGREDIENTS (40 CFR 370): | not listed |
| CERCLA DESIGNATION AND REPORTABLE QUANTITIES (RQ) (40 CFR 302.4): | not listed |
| TSCA INVENTORY STATUS (40 CFR 710): | listed |
| RCRA IDENTIFICATION OF HAZARDOUS WASTE (40 CFR 261): | Waste Number: Refer to Section 13 Disposal Methods for RCRA status. |
| CANADA WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM) | |
| PRODUCT IDENTIFICATION NUMBER: | not applicable |
| HAZARD CLASSIFICATION / DIVISION: | D.2.B, E |
| INGREDIENT DISCLOSURE LIST: | listed |
| DOMESTIC SUBSTANCE LIST: | listed |

The information and recommendations in this Material Safety Data Sheet are based upon data believed to be correct and does not relate to its use in combination with any other material or process. Since use conditions vary, we assume no liability for failure to follow product use direction and safety precautions. As data, standards and regulations change; NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.