

SAFETY DATA SHEET

SECTION 1 MATERIAL NAME / IDENTIFIER

ALKA PLUS / ALKA UP WHMIS: Not Regulated

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO
Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Sodium Bi Carbonate
Chemical Family: Bi Carbonates
Chemical Formula: NAHC03
Trade Name & Synonyms: Baking Soda
Molecular Weight: 84.0
Material Use: Pool Water Alkalinity Booster

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: None

Symbol(s): None

Signal Word: None

Hazard statements: None

Precautionary statements: None

NFPA: 0 Health, 0 Fire, 0 Reactivity

HMIS: 0 Health, 0 Fire, 0 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
------------	------	-----------------

No regulated components

SECTION 4 FIRST AID MEASURES

SAFETY DATA SHEET

- Inhalation:** If respiratory problems arise, move the victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice IMMEDIATELY.
- Skin Contact:** Start flushing while removing contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice.
- Eye Contact:** Immediately flush eyes thoroughly for 15 minutes with running water. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention. Do not allow victim to rub eyes. Do not attempt to manually remove anything stuck to the eye(s).
- Ingestion:** Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give ½ to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY.
- Note to physicians:** Treat symptomatically. Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract.

SECTION 5

FIRE – FIGHTING MEASURES

- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include soda ash (sodium carbonate) oxides of sodium, carbon and irritating gases. Sodium bicarbonate begins to decompose at 50°C, releasing carbon dioxide, sodium carbonate and water. Total decomposition occurs at 270°C.
- Unusual Fire or Explosion Hazards:** Avoid accumulation and dispersion of dust. Spilled material may cause floors and contact surfaces to become slippery. Do not flush with water as aqueous solutions or powders that become wet render surfaces extremely slippery. Enforce NO SMOKING rules.
- Sensitivity to Mechanical Impact:** None.
- Rate of Burning:** Not available.
- Explosive Power:** Not available.
- Sensitivity to Static Discharge:** None.
- Fire Extinguishing Media:** Is used as an extinguishing agent for all classes of fires. Use Media appropriate for surrounding fire and/or materials.

SAFETY DATA SHEET

- Instructions to the Fire Fighters:** Isolate materials that are not involved in the fire and protect personnel. Do not flush with water as aqueous solutions or powders that become wet render surfaces extremely slippery. Spilled material may cause floors and contact surfaces to become slippery.
- Fire Fighting Protective Equipment:** Use self-contained breathing apparatus and protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Leak And Spill Procedure:** In all cases of leak or spill contact vendor at Emergency Number shown on the front page of this MSDS. Minimize airborne spreading of dust. Wear respirator, protective clothing and gloves. Avoid dry sweeping. Do not use compressed air to clean surfaces. Vacuuming or wet sweeping is preferred. Return all material possible to container for proper disposal. Do not allow to enter sewers or watercourses.
- Any recovered product can be used for the usual purpose, depending on the Extent and kind of contamination. Where a package (drum or bag) is damaged and/or leaking, repair it, or place it into an over-pack drum immediately so as to avoid or minimize material loss and contamination of surrounding environment. Replace damaged containers immediately to avoid loss of material and contamination of surrounding atmosphere. Ventilate enclosed spaces. Notify applicable government authority if release is reportable or could adversely affect the environment.

SECTION 7 HANDLING AND STORAGE

HANDLING

- Handling Practices:** Use normal "good" industrial hygiene and housekeeping practices. Avoid Accumulation and dispersion of dust. Clean up immediately to eliminate hazard.
- Ventilation Requirements:** See Section 8, "Engineering Controls".
- Other Precautions:** Use only with adequate ventilation and avoid breathing dusts. Avoid contact with Eyes, skin or clothing. Wash thoroughly with soap and water after handling. Wash Contaminated clothing thoroughly before reuse.

STORAGE

- Ventilation Requirements:** General exhaust is acceptable.
- Storage Requirements:** Store in a cool, dry and well-ventilated area. Keep away from heat, sparks and flames. Keep containers closed. Avoid moisture contamination. Prolonged storage may result in lumping or caking. Protect from direct sunlight. Protect against physical

SAFETY DATA SHEET

damage.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: General exhaust is acceptable. Local exhaust ventilation preferred.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Gloves and protective clothing made from cotton, leather, rubber or plastic should be impervious under conditions of use. Prior to use, user should confirm impermeability. Discard contaminated gloves.

Eye (Specify): Safety glasses with side shields are recommended to prevent eye contact. Use Chemical safety goggles when there is potential for eye contact. Contact lenses Should not be worn when working with this material.

Respiratory (Specify): Use dust mask for concentrations of nuisance dust up to 100mg/m³ particulate. An Air-supplied respirator if concentrations are higher or unknown.

Other (Specify): None.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Odourless, opaque, white powder

Odour Threshold (Ppm): Not applicable

Auto Ignition Temperature (Celsius): Not applicable

Upper Explosion Limit (% By Volume): Not applicable

Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C): 270°C

Flammability: Yes No X

If Yes, Under Which Conditions?: Not applicable

Viscosity (cps): Not applicable

Specific Gravity: 2.16

Vapour Pressure (Mm): Not applicable

Vapour Density (Air-1): Not applicable

Flashpoint (C) Not flammable

Evaporation Rate Not applicable

Boiling Point (C): loses CO₂ at 270 deg C

Freezing Point (C): Not applicable

Solubility In Water (20c): 9.6 g/100g water

% Volatile (By Weight) Not applicable

SAFETY DATA SHEET

Ph: 8.50 (1% solution)

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes No

If No, Under Which Conditions?: Not applicable

Incompatibility To Other Substances: Yes No

If So, Which Ones: Strong oxidizers, acids

Conditions to Avoid: High temperatures, sparks, open flames and all other sources of ignition. Minimize air borne spreading of dust. Avoid direct sunlight and moisture contamination. Hygroscopic.

Hazardous Decomposition Products: Thermal decomposition products are toxic and may include soda ash Oxides of sodium, carbon and irritating gases.
Sodium bicarbonate begins to decompose at 50°C, releasing carbon Dioxide, sodium carbonate and water. Total decomposition occurs at 270°C.

SECTION 11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation: Product may be mildly irritating to the nose, throat and respiratory and may cause coughing and sneezing. Excessive contact with powder may cause drying of mucous membranes of nose and throat due to absorption of moisture and oils. See "Other Health Effects" Section.

Skin Contact: This product may cause irritation due to abrasive action. Excessive contact with powder may cause drying of the skin due to absorption of moisture and oils.

Skin Absorption: Not likely to be absorbed through the skin.

Eye Contact: This product may cause irritation, redness and possible damage due to abrasiveness. Excessive contact with powder may cause drying of mucous membranes of the eyes due to absorption of moisture and oils.

Ingestion: Ingestion is not likely route of exposure. This product may cause mild gastrointestinal discomfort.

Other Health Effects: May cause central nervous system (CNS) depression, metabolic alkalosis, hypernatremia and pneumoconiosis. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposures may lead to coma and possible death due to respiratory failure.

SAFETY DATA SHEET

LD 50 of Material (Specify Species and Routes) 4220mg/kg Oral, Rat

LC 50 of Material (Specify Species and Routes) N/A

Exposure (Limits): ACGIH – TLV 10mg/m³ –nuisance dust; OSHA – TWA 15mg/m³ total dust – 5mg/m³ respire fraction.

Irritancy of Material Mild skin and eye irritant.

Sensitization of Material None known

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to aquatic life.

Sodium Bicarbonate

96-hour LC₅₀ (*Lepomis macrochirus*) = 7100 mg/l

48-hour LC₅₀ (*Culex* sp. Larvae or mosquito) = 2000 mg/l

Environmental Fate: Product has an unaesthetic appearance and can be a nuisance. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers.

Degradability: Not applicable

Bioaccumulative Potential: Not applicable

Mobility In Soil: Not applicable

SECTION 13 DISPOSAL CONSIDERATIONS

Deactivating Chemicals: None required.

Waste Disposal: Dispose of waste material at a municipal landfill site should be satisfactory.

Safe Handling of Residues: Empty containers that contain product residue. No special treatment required.

Disposal of Packaging: Recycling is encouraged. Treat package in the same manner as the product. Empty package may be disposed of with normal garbage.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

This product is not regulated by TDG.

Label(s): Not applicable

Placard: Not applicable.

ERAP Index: -----

Exemptions: None known.

