SECT	ON 1
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MATERIAL NAME / IDENTIFIER

Buffer (Alkalinity)		WHMIS: Not Regulated	
Manufacturer's Name: Street Address: City: Postal Code:		CAPO INDUSTRIES LTD 1200 CORPORATE DRIVE BURLINGTON, ONTARIO 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
Inhalation:	If respiratory problems arise, move the victim to fresh air. Give artificial respiration ONLY
initialation.	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 $\frac{1}{2}$ 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 physici	ans: Treat symptomatically. Sodium salts have a hypothetical risk of hypernatremia. In
	addition to calcium levels, sodium and phosphate levels should be monitored

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

Buffer (Alkalinity)

	Media appropriate for surrounding fire and/or materials.
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
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may result in lumping or caking. Protect from direct sunlight. Protect against physical 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 MATE	ERIAL	
Physical State:	Gas	Liquid	Solid	<u>×</u>
Odour & Appearance:	Odourless, opa	aque, white powder		
Odour Threshold (Ppm):	Not applicable			
Auto Ignition Temperature (Celsius)	Not applicable			
Upper Explosion Limit (% By Volume	e): Not applicable	Э		
Lower Explosion Limit (% By Volume	e):Not applicable	9		
Decomposition Temp (°C):	270°C			
Flammability:	Yes	No <u>X</u>	<u>(</u>	
If Yes, Under Which Conditions?:	Not a	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 C02 at 2	70 deg C		
Freezing Point (C):	Not applicable			
Solubility In Water (20c):	9.6 g/100g wat	er		
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% Volatile (By Weight)	Not applicable
Ph:	8.50 (1% solution)
Coefficient Of Water/Oil Distribution:	Not applicable

Chemical Stability:YesXNoIf No, Under Which Conditions?:Not applicableIncompatibility To Other Substances:YesXNoIf So, Which Ones:Strong oxidizers, acidsConditions to Avoid:High temperatures, sparks, open flames and all other sources ignition. Minimize air borne spreading of dust. Avoid direct sum moisture contamination. Hygroscopic.Hazardous Decomposition Products:Thermal decomposition products are toxic and may include so Oxides of sodium, carbon and irritating gases. Sodium bicarbonate begins to decompose at 50°C, releasing of	
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	arbon
Dioxide, sodium carbonate and water. Total decomposition occ	urs 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.

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 –nuissance 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, Rejroute Effects, Teratogenicity: None known

ECOLOGICAL INFORMATION
May be harmful to aquatic life.
Sodium Bicarbonate
96-hour LC50 (Lepomis macrochirus) = 7100 mg/ll
48-hour LC50 (Culex sp. Larvae or mosquito) = 2000 mg/l
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.

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

This product is not regulated by DOT

Label(s): Not applicable. CERCLA-RQ: Not available. Placard: Not applicable.

Exemptions: Not available.

SECTION 15	REGULATORY INFORMATION	
CANADA		
CEPA – NSNR:	This material is included on the DSL under the CEPA	
CEPA – NPRI:	Not included.	
CANADIAN FOOD AND	DRUG ACT/REGULATIONS: The use of this material/product as a food additive is regulated	by
	Health Canada in the Food and Drug Act and the Food and Dru	ug
	Regulations. It is incumbent on the user of this material/produc	t to
	Ensure any intended food application is consistent with Health	
	Canada guidelines. Food Grade designation in no way implies	
	That the product is safe for consumption by humans.	
WHMIS:	Not Regulated.	
USA		
Environmental Protecti	n Act: This material is included on the TSCA Inventory.	
U.S. FOOD AND DRUG	DMINISTRATION: This material/product is regulated for use by the US FDA. It is incumber	nt
	on the user of this material/product to ensure any intended food	
	application is consistent with US FDA guidelines. Food Grade designation	on
	in no way implies that the product is safe for consumption by humans.	

INTERNATIONAL

Sodium Bicarbonate is found on the following inventories: EINECS (European Inventory of Existing Commercial Chemical Substances).

ol Telephone: (905) 332-6626
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Additional Notes Or References:

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