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Material Safety Data

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PG 1 OF 4

PRODUCT NAME: MAINTAIN ALKALINITY PLUS, AQUAMATE ALKALINITY PLUS, ALKALINITY PLUS

Product ID: 5200

Synonyms: Sodium Bicarbonate, Baking Soda, Sodium Hydrogen Carbonate

Date: 02-06-2003

Supplier:

Baleco Int'l Inc
3200 State Line Rd
North Bend, OH 45052

EMERGENCY PHONE NUMBERS
24-HOUR PHONE NUMBER: 517-636-4400
CHEMTREC: 1-800-424-9300
INFORMATION (304)746-3000

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	FORMULA	PERCENT
Sodium Bicarbonate	144-55-8	NaHCO ₃	100

SECTION 3 HAZARDS IDENTIFICATION

Sodium bicarbonate is generally recognized as safe (GRAS) for humans and animals.

Inhalation: High concentrations of dust may cause coughing and sneezing.

Ingestion: Extremely large oral doses may cause gastrointestinal disturbances.

Skin Contact: Not an irritant.

Eye Contact: Contact may cause mild irritation, redness, and pain.

SECTION 4 FIRST AID MEASURES

Eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult a physician if necessary.

Skin: Wash off in flowing water or shower. If necessary, consult physician.

Ingestion: Seek medical attention immediately if overdose is taken.

Inhalation: Remove to fresh air. Seek medical attention if discomfort persists.

Note to Physician: Large doses, particularly in patients with renal insufficiency, have produced systemic alkalosis and/or expansion in the extra-cellular fluid volume with edema.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Non-Combustible

Flammable Limits: Not Applicable

Extinguishing Media: Non-combustible

Fire & Explosion Hazards: None

Fire Fighting Equipment: Evolves carbon dioxide when heated. Carbon dioxide is an asphyxiant and self-contained breathing apparatus is necessary if large quantities are involved. Sodium bicarbonate decomposes on heating resulting in formation of sodium carbonate (soda ash), which is an irritant. Avoid contact and inhalation of soda ash.

SECTION 6 ACCIDENTAL RELEASE MEASURES

No special precautions are necessary. Sweep up and return to container or dispose of material.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place.

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels. Wear NIOSH approved dust mask where dust is excessive.

Reacts with acid to release carbon dioxide. Suffocation can occur in confined areas.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels. Wear NIOSH approved dust mask where dust exceeds 10 mg/m³.

Specific Personal Protective Equipment:

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline powder.

Odor: Odorless

Specific Gravity: 2.2

pH: (1% solution): 8.3 (0.1 Molar @ 25°C (77°F))

Melting Point: Decomposes/60°C (140°F)

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Vapor Density: 2.2

Solubility in Water: Moderate. 7.8G/100G water @ 18°C (64°F)

SECTION 10 STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage.

Stability: Stable below 200 °F.

Incompatibility: Reacts with acids forming a salt, water and carbon dioxide.

Hazardous Decomposition Products: Carbon dioxide and soda ash.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat, Moisture, and Incompatibles.

SECTION 11 TOXICOLOGICAL INFORMATION

INVESTIGATED AS A MUTAGEN, REPRODUCTIVE EFFECTOR

ORAL RAT LD50: 4220 MG/KG.

IRRITATION DATA: HUMAN, SKIN, 30MG/3D-I MILD, RABBIT, EYE, 100MG/30S, MILD

SECTION 12 ECOLOGICAL INFORMATION

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of container and unused contents in accordance with Federal, State and Local requirements.

SECTION 14 TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Not Regulated.

SECTION 15 REGULATORY INFORMATION

S.A.R.A. TITLE III SECTION 313: Does not apply to sodium bicarbonate.

SECTION 16 OTHER INFORMATION

Maximum dose for drinking water corrosion and scale control 100mg/l as per ANSI/NSF 60 -1988

NFPA Rating:

Health:	1
Fire:	0
Reactivity:	0

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End of MSDS