

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Robelle Total Alkalinity Control

Date Revised: 08/20/2008

Revision No: 1

Robelle Total Alkalinity Control

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Robelle Total Alkalinity Control
GENERAL USE: Alkalinity Increaser
GENERIC NAME: Sodium Bicarbonate; Sodium Hydrogen Carbonate

2255
 2256
 2257

DISTRIBUTOR

Robelle Industries, Inc.
 131 Tosca Dr.
 Stoughton MA 02072
Product Stewardship: (781) 297-7422

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: No significant health or environmental effects associated with this material.

POTENTIAL HEALTH EFFECTS

EYES: Non-irritating to the eyes.

SKIN: Non-irritating to the skin.

INGESTION: Material is non-toxic. Small amounts (1-2 tablespoons) are not likely to cause injury if stomach is not overly full. Swallowing larger amounts may cause injury.

INHALATION: Not expected to be toxic by inhalation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: Only known subchronic effect is that of a marked systemic alkalosis.

CARCINOGENICITY: No known effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Sodium Hydrogen Carbonate; Sodium Bicarbonate	100	000144-55-8	205-633-8

COMMENTS: (sodium hydrogen carbonate; sodium bicarbonate)

4. FIRST AID MEASURES

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EYES: Remove contacts. Flush eyes with clean flowing lukewarm water while occasionally lifting eyelids.

SKIN: No first aid needed.

INGESTION: If large amounts of this material are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person.

INHALATION: No first aid needed.

NOTES TO PHYSICIAN: Large doses may produce systemic alkalosis and expansion in extra cellular fluid volume with edema.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not combustible.

FLAMMABLE LIMITS: 0 to 0

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

FIRE FIGHTING PROCEDURES: Carbon dioxide may be generated making necessary the use of self-contained breathing apparatus (SCBA) and full protective equipment (bunker gear). Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another thermal decomposition product existing at temperatures above 850 deg C is a respiratory, eye, and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Scoop up into dry clean containers. Wash away uncontaminated residue with water.

7. HANDLING AND STORAGE

HANDLING: Sodium bicarbonate reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and have been determined to be safe.

STORAGE: Store in a cool dry place. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation requirements.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses when dusts are generated.

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SKIN: General purpose gloves for handling dry product. Impervious gloves for solutions.

RESPIRATORY: A dust mask should be used if total dust levels exceed 10 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: None.

APPEARANCE: White crystalline.

pH: Not Available

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A.

BOILING POINT: N/A

FREEZING POINT: N/A

FLASHPOINT AND METHOD: Not combustible.

SOLUBILITY IN WATER: 8.6/100 mg @ 20 deg C

SPECIFIC GRAVITY: 1.000

MOLECULAR WEIGHT: 84.02

(VOC): 100.000

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Heating above 100 deg C may cause dangerous levels of carbon dioxide gas to be present in confined spaces.

INCOMPATIBLE MATERIALS: Reacts with acids. May yield free caustic in presence of lime dust and moisture.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 7.3 g/kg (rat)

INHALATION LC₅₀: > 4.74 mg/L (rat)

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EYE EFFECTS: Minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits).

SKIN EFFECTS: Not a skin irritant or dermally toxic. Not a contact sensitizer.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is not expected to persist in the environment.

BIOACCUMULATION/ACCUMULATION: This product is not expected to bioaccumulate.

AQUATIC TOXICITY (ACUTE): Daphnids EC50 = 4100 mg/l

Bluegill LC50 = 7100 mg/l

Rainbow Trout LC50 = 7700 mg/l

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not listed.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Sodium Hydrogen Carbonate; Sodium Bicarbonate	000144-55-8

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: Not hazardous.

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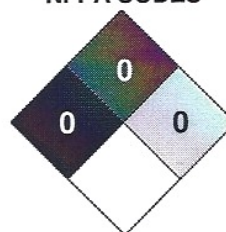
16. OTHER INFORMATION

REVISION SUMMARY: Revision #: 1 This MSDS replaces the June 30, 2008 MSDS. Any changes in information are as follows:

HMIS RATING

HEALTH:	0
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA CODES



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