

NATRIUM PRODUCTS, INC

58 Pendleton St. PO Box 5465 Cortland, NY 13045 Ph: 1-800-962-4203 Fax: 607-753-0552

MATERIAL SAFETY DATA SHEET

**SODIUM BICARBONATE, BAKING SODA, CARBONIC ACID MONOSODIUM SALT,
SODA BLASTING MEDIA FORMULAS 150,260,300**

ALKALINITY INCREASER

ISSUE DATE: January 18, 2005

SUPERSEDES: March 17, 2004

1. INGREDIENTS:

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

2. HAZARD IDENTIFICATION:

Key: 4 Severe
3 Serious
2 Moderate
1 Slight
0 Minimal

HMIS RATING

Health 0
Flammability 0
Reactivity 0
Protection E

NFPA RATING

Health 0
Flammability 0
Reactivity 0
Special None

HMIS "E" Rating = Safety glasses, gloves, dust respirator

There are no appreciable health or environmental effects associated with this material

3. FIRST AID:

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.

4. FIRE AND EXPLOSION HAZARD DATA:

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.

5. ACCIDENTAL RELEASE MEASURES

Sweep up into clean dry containers for salvage or disposal. Wash away uncontaminated residue with water.

6. HANDLING & STORAGE

Store in a cool, dry place away from any incompatible materials.

7. EXPOSURE CONTROL/PERSONAL PROTECTION

Provide general and/or local exhaust ventilation to control airborne dust.

Personal Protection (for dusty conditions)

Eyes & Face: Safety glasses for dusty conditions

Respiratory: NIOSH approved dust mask

Miscellaneous: Full cover clothing, general purpose gloves

Sodium Bicarbonate

8. PHYSICAL DATA:

APPEARANCE:	White crystalline powder	ODOR:	Odorless
SPECIFIC GRAVITY:	2.2	pH (1% solution)	8.2
MELTING POINT:	Decomposes	BOILING POINT:	Not Applicable
VAP PRESS:	Not Applicable	VAP DENSITY:	Not Applicable
SOL. IN WATER:	Moderate	MOLECULAR WGT.	84.02

9. STABILITY & REACTIVITY:

STABILITY: Stable below 150°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.

10. TOXICOLOGICAL INFORMATION:

Acute effects of overexposure: Sodium bicarbonate is generally recognized as safe (GRAS) for humans and animals. No significant toxicity is expected.

Chronic effects of overexposure: Large doses, particularly in patients with renal insufficiency, have produced systemic alkalosis and/or expansion in the extra-cellular fluid volume with edema.

11. ECOLOGICAL INFORMATION

Bioaccumulation Potential: No bioaccumulation expected.

Comments: No significant environmental hazards expected.

12. DISPOSAL CONSIDERATIONS:

Dispose in accordance with pertinent federal, state and local regulations. Empty containers may be incinerated or discarded as general trash.

13. TRANSPORTATION INFORMATION:

Not regulated by the U.S. Department of Transportation

14. REGULATORY INFORMATION:

S.A.R.A. TITLE III SECTIONS 313 (40 CFR 372) - Not applicable

CERCLA (40 CFR 302.4) - Not applicable

TSCA (40 CFR 710) - Listed

OSHA (29 CFR 1910.1200) - Not hazardous

Food and Drug Administration- Generally recognized as safe (GRAS) direct food additive (21CFR 184.1736).

15. REVISION SUMMARY

March 17, 2004 -Format change. Replaces MSDS dated December 22, 2000.

January 17, 2005- Added Formulations. Replaces MSDS dated March 17, 2004

16. ADDITIONAL INFORMATION:

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

This Material Safety Data Sheet is offered solely for your information, consideration, and investigation. Natrium Products, Inc. provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or the completeness of the data contained herein.

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MATERIAL SAFETY DATA SHEET

SODIUM CARBONATE, ANHYDROUS, SODA ASH, DENSE

ISSUE DATE: December 13, 2005

SUPERSEDES: September 17, 2001

1. INGREDIENTS:

<u>INGREDIENTS:</u>	<u>CAS #</u>	<u>FORMULA</u>	<u>PERCENT</u>
Sodium Carbonate	497-19-8	Na ₂ CO ₃	100

2. HAZARD IDENTIFICATION:

Key: 4 Severe
3 Serious
2 Moderate
1 Slight
0 Minimal

HMIS RATING

Health	2
Flammability	0
Reactivity	0
Protection	J

NFPA RATING

Health	2
Flammability	0
Reactivity	0
Special	None

HMIS "J" Rating = Safety goggles, gloves, dust & vapor respirator

3. FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes, while keeping the eye lids open. Consult a physician or ophthalmologist.

SKIN: Wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

INGESTION: Do not induce vomiting. If patient is conscious, give them 1-2 glasses of water. Seek medical attention immediately if overdose is taken.

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

NOTE TO PHYSICIAN: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

4. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Non-combustible

FLAMMABLE LIMITS: Not Applicable

EXTINGUISHING MEDIA: Non-combustible

FIRE & EXPLOSION HAZARDS: None

FIRE FIGHTING EQUIPMENT: Wear full protective clothing and self contained breathing apparatus.

5. ACCIDENTAL RELEASE MEASURES

Sweep up into clean dry containers for salvage or disposal. Dispose in accordance with applicable federal, state and local laws and regulations.

6. HANDLING & STORAGE

Avoid prolong and repeated contact with the skin or eyes. Use approved respiratory protection when dust is a problem.

Store in a cool, dry place away from any incompatible materials.

7. EXPOSURE CONTROL/PERSONAL PROTECTION

Provide general and/or local exhaust ventilation to control airborne dust. Personal protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate equipment should be selected for the particular situation encountered. Some recommendations for dusty conditions include;

Respiratory: NIOSH approved dust respirator

Eyes & Face: Safety glasses and/or goggles

Miscellaneous: Suitable clothing to prevent prolonged skin contact

Sodium Carbonate

8. PHYSICAL DATA:

APPEARANCE:	White granules, solid	ODOR:	Odorless
SPECIFIC GRAVITY:	2.53 @ 20°C	pH (1% solution)	11.3
MELTING POINT:	851°C	BOILING POINT:	Not Applicable
VAP PRESS:	Not Applicable	VAP DENSITY:	Not Applicable
SOL. IN WATER:	33% maximum	MOLECULAR WGT.	105.99

9. STABILITY & REACTIVITY:

STABILITY: Stable under normal handling and storage conditions.

INCOMPATIBILITY: Reacts with acids to release carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide is evolved at very high temperatures or when mixed with acids.

HAZARDOUS POLYMERIZATION: Will not occur.

10. TOXICOLOGICAL INFORMATION:

Eye effects: Severe irritant

Skin effects: Non-irritating to intact skin. Minor irritation to abraded skin.

Acute effects from overexposure: May cause severe irritation to the eyes. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract.

Chronic effects from overexposure: This product does not contain any substances considered by OSHA, NTP, IARC, or ACGIH to be "probable" or "suspected" human carcinogens.

11. DISPOSAL CONSIDERATIONS:

Dispose in accordance with pertinent federal, state and local regulations.

12. TRANSPORTATION INFORMATION:

Not regulated by the Department of Transportation

13. REGULATORY INFORMATION:

S.A.R.A. TITLE III

SECTION 302 (40 CFR 355) Extremely Hazardous Substances - Not Listed

SECTION 311 (40 CFR 370) Hazard Category - Immediate (Acute) Health Hazard

SECTION 312 (40 CFR 370) Threshold Planning Quantity - 10,000 lbs.

SECTION 313 (40 CFR 372) Reportable Ingredients- Not Listed

CERCLA (40 CFR 302.4) - Not applicable

TSCA (40 CFR 710) - Listed

EPA HAZARDOUS WASTE- NO

State - This product does not contain any components that are regulated under California Proposition 65.

14. REVISION SUMMARY

December 13, 2005 - Added regulatory information. Replaces MSDS dated September 17, 2001

15. ADDITIONAL INFORMATION:

The information herein is given in good faith, however, no warranty, expressed or implied, is made.