

**NATRIUM PRODUCTS  
CORTLAND, NEW YORK 13045  
1-800-962-4203**

**MATERIAL SAFETY DATA SHEET**

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

**ISSUE DATE: January 17, 2005**

**SUPERSEDES: March 17, 2004**

**1. INGREDIENTS:**

Sodium Bicarbonate

**CAS #**

144-55-8

**FORMULA**

NaHCO<sub>3</sub>

**PERCENT**

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

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**8. PHYSICAL DATA:**

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

**9. STABILITY & REACTIVITY:**

**STABILITY:** Stable below 150<sup>o</sup> 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

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