

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:**

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

2. **HAZARD IDENTIFICATION:**

	<u>HMIS RATING</u>		<u>NFPA RATING</u>	
Key: 4 Severe	Health	0	Health	0
3 Serious	Flammability	0	Flammability	0
2 Moderate	Reactivity	0	Reactivity	0
1 Slight	Protection	E	Special	None
0 Minimal				

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

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^o 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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