

MATERIAL SAFETY DATA SHEET

BAKING SODA
CAROLINA BIOLOGICAL

Revised: 05/15/08
Replaces: 07/10/07
Printed: 06/30/09

1. PRODUCT DESCRIPTION

Product Name: Baking Soda
Product Code(s): 95-7860, 97-2101, 97-2115
Size: Various
Chemical Name: Sodium Bicarbonate
CAS Number: 144-55-8
Formula: NaHCO₃
Synonyms: Sodium Acid Carbonate
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Sodium bicarbonate(CAS#144-55-8)99-100%
TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: May cause irritation. During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

Potential Health Effects:

Eyes: May cause some irritation, pain, redness

Skin: Not likely to irritate.

Ingestion: Very large amounts may cause gastrointestinal discomfort.

Inhalation: High dust levels may cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water. Get medical attention if irritation develops.

Skin - Wash with soap and water (not likely to irritate).

Ingestion - If swallowed, if conscious, give plenty of water to dilute.

Never give anything by mouth to an unconscious person. For ingestion of large amounts, seek medical attention.

Inhalation - Remove to fresh air. If person experiences breathing difficulty, get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): N/A; not a fire hazard.

NFPA Rating: Health: 0

Fire: 0

Reactivity: 0

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper

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protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep container tightly closed. Suitable for any general chemical storage area.

Other Precautions: None

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if high dust conditions exist. Ventilation:

Local Exhaust: Yes
Mechanical(General): Yes
Special: No
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 84.01
Melting Point: 50°C (122°F)
Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density(Air=1): N/A
Specific Gravity(H2O=1): 2.159 at 20°C
Percent Volatile by Volume: Not applicable
Evaporation Rate(H2O=1): Not applicable
Solubility in Water: 94g/L at 25°C
Appearance and Odor: White crystalline powder, odorless

10. REACTIVITY DATA

Stability: Stable in normal conditions of use and storage

Conditions to Avoid: Heat, humidity, incompatibles

Incompatibility(Materials to Avoid): Acids (reacts with acids to form carbon dioxide). Reacts with monoammonium phosphate (dry chemical extinguishing agent).

Hazardous Decomposition Products: Carbon dioxide

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Oral-Rat LD50: 4220 mg/kg

Effects of Overexposure:

Acute: See section 3
Chronic: None

Conditions Aggravated by Overexposure: Skin and eye irritation

Target Organs: N/A

Primary Route(s) of Entry: Skin and eye contact .

12. ECOLOGICAL DATA

EPA Waste Numbers: None

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13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Sodium Bicarbonate	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act