

Material Safety Data Sheet

BAKING SODA

1. PRODUCT DESCRIPTION

Product Name: Baking Soda
Product Code(s): 95-7860, 97-2101, 97-2115
Size: Various
Chemical Name: Sodium Bicarbonate
CAS Number: 144-55-08
Formula: NaHCO₃
Synonyms: Sodium Acid Carbonate
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Emergency Information:
800-227-1150 (8 am–5 pm [ET] M–F)
Chemtrec (Transportation Spill Response 24 hours):
800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Sodium Bicarbonate
(CAS #144-558) 99-100%
TLV and PEL units: None established.

3. HAZARD IDENTIFICATION

Emergency Overview: May cause irritation. 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 irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes: Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin: Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion: If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation: Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): N/A
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 protective equipment. Avoid creating dust. Sweep or scoop up and put into a proper container.

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 PELs are exceeded.
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 coat, eye wash, and safety shower.

(continued)

Material Safety Data Sheet

BAKING SODA (CONT.)

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): 2.16.
Percent Volatile by Volume: 0 (21°C).
Evaporation Rate (H₂O=1): N/A
Solubility in Water: Moderate (1-10%).
Appearance and Odor: White crystalline powder, odorless.

10. REACTIVITY DATA

Stability: Stable.
Conditions to Avoid: Heat, humidity.
Incompatibility (Materials to Avoid): None.
Hazardous Decomposition Products: Carbon monoxide, 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: None.
Primary Route(s) of Entry: Skin and eye contact.

12. ECOLOGICAL DATA

EPA Waste Numbers: None.

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

Non-regulated.

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory RTECS ON CD-ROM.
Hazard Category for SARA Section 311/312 Reporting: Acute.

Product or Components	SARA Sec. 313				
	SARA EHS Sec. 302 TPQ	Chemicals Name List	CERCLA Chemical Category	RCRA Sec. 103 RQ lbs.	Sec. 261.33
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.
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.