Sodium Bicarbonate



Section 1 **Product Description**

Product Name: Sodium Bicarbonate

Recommended Use: Science education applications

Baking soda, Sodium Acid Carbonate, Carbonic Acid, Sodium Salt Synonyms:

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas

Contains

Acute Toxicity Inhalation Vapor

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

Section 3

100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

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Composition / Information on Ingredients

Chemical Name CAS# % Sodium Bicarbonate 144-55-8 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eves: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Firefighting Procedures Section 5

Use media suitable to extinguish surrounding fire. Extinguishing Media:

Firefighters should wear full protective equipment and NIOSH approved self-contained Fire Fighting Methods and Protection:

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 pill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

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Section 7 Handling and Storage

Handling: Avoid creating and inhaling dust.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL

Chemical Name(TWA)(STEL)(TWA)(STEL)Sodium BicarbonateN/AN/AN/AN/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9 Physical Data

Formula: NaHCO3
Molecular Weight: 84.00
Appearance: White Powder

Odor: None

Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: 2.159 Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available

Decomposition Temperature: 50 C

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:
Incompatible Materials:
Hazardous Decomposition Products:
Hazardous Polymerization:

None known.
Acids
Carbon oxides
Will not occur

Section 11 Toxicity Data

Routes of Entry Ingestion.

Symptoms (Acute): Alkalosis, Diarrhea, Hypertension

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

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Sodium Bicarbonate 144-55-8 Oral LD50 Mouse Not determined Not determined

3360 mg/kg Oral LD50 Rat 4220 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHASodium Bicarbonate144-55-8Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No data available Chronic: No data available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Sodium Bicarbonate 144-55-8 48 HR EC50 DAPHNIA MAGNA 2350 MG/L

120 HR EC50 NITZSCHIA LINEARIS 650 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Sodium Bicarbonate 144-55-8 No No No No No No

Section 16 Additional Information

Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014

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.

Glossary

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

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