

<a href="#">Sodium Bicarbonate</a>	<a href="#">Pricing &gt;</a>
<a href="#">Sodium Hydrogen Carbonate</a>	<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	NaHCO <sub>3</sub>
<b>Pubchem CID</b>	516892
<b>MDL Number</b>	MFCD00003528
<b>EC No.</b>	205-633-8
<b>IUPAC Name</b>	sodium; hydrogen carbonate
<b>Beilstein/Reaxys No.</b>	4153970
<b>SMILES</b>	C(=O)(O)[O-].[Na+]
<b>Inchl Identifier</b>	InChI=1S/CH2O3.Na/c2-1(3)4;/h(H2,2,3,4);/q;+1/p-1
<b>Inchl Key</b>	UIIMBOGNXHQVGW-UHFFFAOYSA-M
<b>Signal Word</b>	N/A
<b>Hazard Statements</b>	N/A
<b>Hazard Codes</b>	N/A
<b>Risk Codes</b>	N/A
<b>Safety Statements</b>	N/A
<b>Transport Information</b>	NONH for all modes of transport

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## SAFETY DATA SHEET

Date Accessed: 04/18/2024

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### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #144-55-8

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:

Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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## **SECTION 2. HAZARDS IDENTIFICATION**

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Component

Sodium bicarbonate  
CAS-No: 144-55-8

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## **SECTION 4. FIRST AID MEASURES**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

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## **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information

available  
Sensitivity to Static Discharge No information  
available  
Specific Hazards Arising from the Chemical  
Non-combustible, substance itself does not burn but  
may decompose upon heating to produce corrosive  
and/or toxic fumes.  
Hazardous Combustion Products  
Sodium oxides  
Protective Equipment and Precautions for Firefighters  
As in any fire, wear self-contained breathing  
apparatus pressure-demand, MSHA/NIOSH  
(approved or equivalent) and full protective gear.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions Ensure adequate ventilation.  
Use personal protective equipment. Avoid dust  
formation.  
Environmental Precautions Should not be released  
into the environment.  
Methods for Containment and Clean Up  
Sweep up or vacuum up spillage and collect in  
suitable container for disposal. Avoid dust  
formation.

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## **SECTION 7. HANDLING AND STORAGE**

Handling Wear personal protective equipment. Ensure  
adequate ventilation. Avoid ingestion and  
inhalation. Avoid contact with skin, eyes and clothing.  
Avoid dust formation.  
Storage Keep containers tightly closed in a dry, cool  
and well-ventilated place.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines This product does not contain  
any hazardous materials with occupational exposure  
limits established by the region specific regulatory  
bodies.  
Engineering Measures Ensure adequate ventilation,  
especially in confined areas. Ensure that eyewash  
stations and safety showers are close to the  
workstation location.  
Personal Protective Equipment  
Eye/face Protection Wear appropriate protective  
eyeglasses or chemical safety goggles as described

by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.  
Respiratory Protection No protective equipment is needed under normal use conditions.  
Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Powder Solid  
Appearance White  
Odor Odorless  
Odor Threshold No information available  
pH 8.3 0.1M aq. solution  
Melting Point/Range 270 °C / 518 °F  
Boiling Point/Range No information available  
Flash Point No information available  
Evaporation Rate Not applicable  
Flammability (solid,gas) No information available  
Flammability or explosive limits  
Upper No data available  
Lower No data available  
Vapor Pressure No information available  
Vapor Density Not applicable  
Specific Gravity No information available  
Solubility Slightly soluble in water  
Partition coefficient; n-octanol/water No data available  
Autoignition Temperature  
Decomposition Temperature > 50°C  
Viscosity Not applicable  
Molecular Formula C H Na O3  
Molecular Weight 84.01

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactive Hazard None known, based on information available  
Stability Hygroscopic.  
Conditions to Avoid Avoid dust formation.  
Incompatible products. Exposure to moist air or water.  
Excess heat.  
Temperatures above 50°C.  
Incompatible Materials Strong oxidizing agents, Acids  
Hazardous Decomposition Products Sodium oxides  
Hazardous Polymerization Hazardous polymerization does not occur.  
Hazardous Reactions None under normal processing.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed  
No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

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## **SECTION 12. ECOLOGICAL INFORMATION**

Persistence and Degradability Soluble in water

Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT Not regulated  
TDG Not regulated  
IATA Not regulated  
IMDG/IMO Not regulated

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## **SECTION 15. REGULATORY INFORMATION**

U.S. Federal Regulations  
TSCA 12(b) Not applicable  
SARA 313 Not applicable  
SARA 311/312 Hazard Categories See section 2 for more information  
CWA (Clean Water Act) Not applicable  
Clean Air Act Not applicable  
OSHA Occupational Safety and Health Administration Not applicable  
CERCLA Not applicable  
California Proposition 65 This product does not contain any Proposition 65 chemicals  
U.S. State Right-to-Know Regulations Not applicable  
U.S. Department of Transportation  
Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N  
U.S. Department of Homeland Security  
This product does not contain any DHS chemicals.  
Other International Regulations  
Mexico - Grade No information available

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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