



## SAFETY DATA SHEET

### Sodium Bicarbonate

#### 1. Product and Company Identification

Product Name	Sodium Bicarbonate
Synonyms	Sodium Bicarb
MSDS Number	D20439
Product Use	Detergent, foaming agents, water treatment, environmental protection, flue gas purification
Company Identification	Aquachem of America Inc. PO Box 129 Little Chute, WI 54140
Telephone	Aquachem of America Inc. – 920-687-5238 CHEMTREC – 800.424.9300

NFPA diamond and HMIS ratings for this product may be found in section 16 of this Safety Data Sheet.

#### 2. Hazards Identification

Form	Crystalline, powder
Color	White
Odor	Odorless
OSHA/HCS Status	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
GHS Classification	Skin irritation (Category 3) Eye irritation (Category 2B)
Pictogram	None
Signal Word	Warning
Hazard Statement(s)	Not applicable
Precautionary Statement(s)	Not applicable



### **Potential Acute Health Effects**

Inhalation	Mechanical irritation from the particulates generated by the product.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Skin	Mechanical irritation from the particulates generated by the product.
Eyes	Mechanical irritation from the particulates generated by the product.

**See section 11 for more detailed information on health effects and symptoms**

### **3. Composition/Information on Ingredients**

<b><u>Ingredient Name</u></b>	<b><u>CAS Number</u></b>	<b><u>WT %</u></b>
Sodium Bicarbonate	144-55-8	>= 99%

### **4. First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Skin Contact	Wash off with plenty of water.
Inhalation	Remove the subject from dusty environment, have victim blow nose.
Ingestion	If a large amount is swallowed, get medical attention. If victim is conscious, rinse mouth with water.
Protection of First Aid Personnel	No action shall be taken involving any personal risk.
Notes to Physician	None

### **5. Fire-fighting Measures**

Flammability of the Product	Not flammable
Flash Point (Method)	Not applicable
Auto Ignition Temperature	Not applicable

#### **Extinguishing Media**

Suitable	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Not Suitable	None



Special Fire-fighting                      No special precautions required.

Procedures & Hazards

Unusual Fire & Explosion                      When heated to decomposition, material emits acrid smoke and irritating fumes.

Hazards

## 6. Accidental Release Measures

Personal Precautions                      Refer to protective measures listed in section 7 and 8.

Environmental Precautions                      Do not flush into surface water or sanitary sewer system. Prevent any mixture with an acid into the sewer/drain as gases may form.

Spill                      Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labeled and closed containers for disposal.

## 7. Handling and Storage

Handling                      Keep away from incompatible products. Avoid dust formation.

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

## 8. Exposure Controls/Personal Protection

### **Ingredient Name**

### **ACGIH TLV**

### **OSHA PEL**

Sodium Bicarbonate                      None established                      5 mg/m<sup>3</sup>(particles not otherwise specified)

Engineering Measures                      Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene Measures                      Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory                      Use NIOSH approved respiratory protection if exposure limits are encountered. Eyes and Face Dust proof goggles, if dusty.

Skin                      Wear suitable gloves.

## 9. Physical and Chemical Properties

Appearance                      White, crystalline powder



Odor	Odorless
pH	8.6 @ concentration of 52 g/l
Water Solubility	96 g/L @ 20 °C (68 °F)
Vapor Density (air = 1)	Not applicable
Evaporation rate (butyl acetate = 1)	Not applicable
Boiling Point (°F)	Not applicable
Freezing Point (°F)	Not applicable
Specific Gravity (H <sub>2</sub> O = 1 @ 70 °F)	Not applicable
Vapor Pressure	Not applicable
Volatile Organic (VOC) Content	Not applicable

## 10.Stability and Reactivity

Stable: X      Unstable:      Hazardous Polymerization:      Occurs:      Does Not Occur: X

Conditions to Avoid	Keep at temperature not exceeding 60 °C (140 °C)
Materials to Avoid	Acids
Decomposition Products	None

## 11.Toxicological Information

### Eye

Sodium Bicarbonate Mild eye irritation – rabbit

### Dermal

Sodium Bicarbonate Mild skin irritation – rabbit

### Inhalation

Sodium Bicarbonate Acute inhalation toxicity  
LC50 – rat >4.74 mg/l

### Oral

Sodium Bicarbonate Acute oral toxicity  
LD50 – rat >4000 mg/kg

Chronic Effects No observed chronic effects



## 12. Ecological Information

Biodegradability	Material is biodegradable.
Ecotoxicity	Fish Oncorhynchus mykiss (rainbow trout): LC50 – 7700 mg/l – 96 hr. Oncorhynchus mykiss (rainbow trout): NOEC – 2300 mg/l – 96 hr. Lepomis macrochirus (bluegill): LC50 – 7100 mg/l – 96 hr. Lepomis macrochirus (bluegill): NOEC – 5200 mg/l – 96 hr. Crustaceans Daphnia magna (water flea): EC50 – 4100 mg/l – 48hr. Daphnia magna (water flea): NOEC – 3100 mg/l – 48hr.

## 13. Disposal Considerations

Waste Disposal	Offer surplus material to a licensed disposal company.
RCRA	This material is not listed as a hazardous waste if and when it is discarded. <b>Note:</b> If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

## 14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<b><u>US DOT 49 CFR 172.101</u></b>	<b><u>Non-bulk Shipments (Drums/Totes)</u></b>	<b><u>Bulk Shipments (Tank Trucks/Rail Cars)</u></b>
Proper Shipping Name	Not regulated by DOT	Not regulated by DOT
Hazard Class	Not applicable	Not applicable
Identification Number	Not applicable	Not applicable
Packing Group	Not applicable	Not applicable
Reportable Quantities	Not applicable	Not applicable
Placards/Labels	Not applicable	Not applicable

## 15. Regulatory Information

CERCLA / SARA Emergency Reporting	This material is not listed for required reporting.
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SARA Title III Section 313

This material is not listed for required reporting.

Clean Water Act (CWA)

This material is not listed for required reporting.

Section 311

TSCA – Toxic Substances  
Control Act

All components of this product are listed as “Active” on the Toxic Substances Control Act (TSCA) 8(b) Inventory

RCRA – Resource  
Conservation and Recovery  
Act

The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

State Regulations  
California

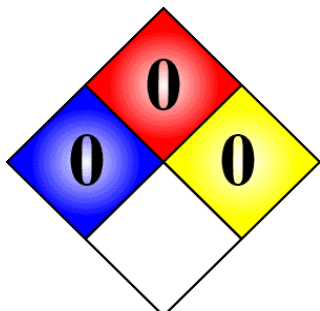
**Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm: Sodium Bicarbonate 144-55-8

## 16. Other Information

Date of Issue

1/31/2013 | 8/26/2016-updated section 2 (ST) | 09/11/2019 – updated TSCA statement, section 15 (RP) | 3/19/2021-updated address, section 1 (ST)

NFPA



HMIS

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	

Caution: NFPA and HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them.

The customer is responsible for determining the PPE code for this material.

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