

# MSDS • Sodium Bicarbonate (Baking Soda)

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## SECTION 1: NAME & HAZARD SUMMARY

**Material Name:** Sodium Bicarbonate

**Synonyms:** Baking Soda; Bicarbonate of soda; Sodium acid carbonate; Monosodium carbonate; Sodium hydrogen carbonate; Carbonic acid monosodium salt.

Hazard summary (as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200):

Physical hazards: None (see Section 5)

Health hazards: Based on MDI - may cause irritation (eye, skin, respiratory passages, skin) inhalation (respiratory sensitizer, lung injury).

Read the entire MSDS for a more thorough evaluation of the hazards.

## SECTION 2: INGREDIENTS

	%	OSHA PEL
Sodium Bicarbonate	100	Not Listed
CAS# 144-55-8		

Values are not product specifications.

## SECTION 3: PHYSICAL DATA

Physical State: Solid

Appearance: white

Odor: Odorless.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not applicable

Viscosity: Not available.

Boiling Point: Not applicable

Freezing/Melting Point: Not applicable

Autoignition Temperature: Not available.

Flash Point: Not available.

Decomposition Temperature: Not available.

Explosion Limits, Lower: Not available. Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Reactivity: 0

Solubility: soluble in water and alcohol

Specific Gravity/Density: 2.2g/cm<sup>3</sup>

Molecular Formula: NaHCO<sub>3</sub>

Molecular Weight: 84.007



## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Noncombustible solid.

## SECTION 5: STABILITY AND REACTIVITY DATA

Avoid contact with strong oxidizers and strong acids.

Shelf life: Stable under dry storage conditions; slowly decomposes in moist air.

## SECTION 6: HEALTH HAZARD ASSESSMENT

### *Eye Contact:*

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

### *Skin Contact:*

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

### *Ingestion:*

Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

### *Inhalation:*

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

### *Notes to Physician:*

Treat symptomatically and supportively.

## SECTION 7 SPILL, LEAK AND WASTE DISPOSAL INFORMATION

### *General Information:*

Use proper personal protective equipment as indicated in Section 8.

### *Spills/Leaks:*

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

### *Handling:*

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Do not breathe dust, vapor, mist, or gas. Keep container tightly closed. Avoid ingestion and inhalation.

### *Storage:*

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## SECTION 8 SPECIAL PROTECTION INFORMATION

### *Engineering Controls:*

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### *Personal Protective Equipment:*

**Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.

Eyewash station and safety shower in work area.

## SECTION 9 TOXICOLOGY

Acute effects: Gastrointestinal disturbances, irritating dust

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: 4220 mg/kg IHL-RAT LC50: N.A. SKN-RBT LD50: N.A.

## SECTION 10 REGULATORY INFORMATION

US FEDERAL

TSCA-listed, EINECS-listed (205-633-8).

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 144-55-8 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts. California No Significant Risk Level: None of the chemicals in this product are listed.



## SECTION 11 • OTHER INFORMATION

This Material Safety Data Sheet (MSDS) is provided to you for your guidance only and is based upon publicly available information and tests that are believed to be reliable. However, Loose in the Lab, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. This data is offered solely for your evaluation, consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor purchasing and using the materials to be in accordance with applicable local, state or federal laws and regulations in addition to the mandates and guidelines of their specific school district.

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