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## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM BICARBONATE AR (SODIUM HYDROGEN CARBONATE)

#### 1. Product Identification

**Synonyms:** Sodium hydrogen carbonate; sodium acid carbonate; baking soda; bicarbonate of soda  
**CAS No.:** 144-55-8

Product Coad: S0186000500

**Molecular Weight:** 84.01  
**Chemical Formula:** NaHCO<sub>3</sub>

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Bicarbonate	144-55-8	99 - 100%	No

#### 3. Hazards Identification

**Emergency Overview** As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Inhalation:** High concentrations of dust may cause coughing and sneezing.  
**Ingestion:** Extremely large oral doses may cause gastrointestinal disturbances.  
**Skin Contact:** No adverse effects expected.  
**Eye Contact:** Contact may cause mild irritation, redness, and pain.

#### 4. First Aid Measures

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.  
**Ingestion:** Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice. **Skin Contact:** Not expected to require first aid measures.  
**Eye Contact:** Wash thoroughly with running water. Get medical advice if irritation develops.

#### 5. Fire Fighting Measures

**Fire:** Not considered to be a fire hazard.  
**Explosion:** Not considered to be an explosion hazard.  
**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.  
**Special Information:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

#### 7. Handling and Storage

Keep in a well closed container stored under cold to warm conditions, 2 to 40 C, (36 to 104F). Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** None established.  
**Ventilation System:** In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered. **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.  
**Skin Protection:** Wear protective gloves and clean body-covering clothing.  
**Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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#### 9. Physical and Chemical Properties

**Appearance:** White crystalline powder.  
**Odor:** Odorless.  
**Solubility:** 7.8g/100g water @ 18C (64F).  
**Density:** 2.2  
**pH:** 8.3 (0.1 molar @ 25C (77F))  
**% Volatiles by volume @ 21C (70F):** 0  
**Boiling Point:** Not applicable.  
**Melting Point:** 60C (140F)

#### 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.  
**Hazardous Decomposition Products:** Gaseous carbon dioxide.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.

**Conditions to Avoid:** Heat, moisture, incompatibles.

#### 11. Toxicological Information

Investigated as a mutagen, reproductive effector. Oral rat LD50: 4220 mg/kg. Irritation data: human,skin, 30mg/3D-I mild, rabbit,eye, 100 mg/30 S, mild.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Sodium Bicarbonate (144-55-8)	No	No	None

#### 12. Ecological Information

**Environmental Fate:** No information found.  
**Environmental Toxicity:** No information found.

#### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Not regulated.

#### 15. Regulatory Information

NA

#### 16. Other Information

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0

**Label Hazard Warning:** As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. **Label Precautions:** None. **Label First Aid:** Not applicable.

**Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
  - **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
  - **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.
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