

# Mallinckrodt Material Safety Data

Emergency Phone Number: 314-982-5000

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## SODIUM BICARBONATE

### PRODUCT IDENTIFICATION:

Synonyms: Sodium hydrogen carbonate; sodium acid carbonate; baking soda

Formula CAS No.: 144-55-8

Molecular Weight: 84.01

Chemical Formula:  $\text{NaHCO}_3$

Hazardous Ingredients: Not applicable.

### PRECAUTIONARY MEASURES

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.

### EMERGENCY/FIRST AID

SEE SECTION 5.

DOT Hazard Class: Not Regulated

### SECTION 1 Physical Data

Appearance: White crystalline powder.

Odor: Odorless.

Solubility: 7.8g/100g water @ 18°C (64°F).

Boiling Point: Not applicable.

Melting Point: Decomposes @ 60°C (140°F)

Density: 2.2

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate: No information found.

### SECTION 2 Fire and Explosion Information

Flame: 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:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### SECTION 3 Reactivity Data

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.

SECTION 4 Leak/Spill Disposal Information

Collect by scooping, mopping or wet vacuuming as appropriate. Collected waste may be transferred to a closed, preferably metal, container and sent to an approved waste disposal facility. Alternatively, spills can be diluted with large quantities of water and handled as non-hazardous waste. Ensure compliance with local, state and federal regulations.

**SECTION 5 Health Hazard Information**

**A. EXPOSURE / HEALTH EFFECTS**

**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.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

No information found.

**B. FIRST AID**

**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 Exposure:**

Not expected to require first aid measures.

**Eye Exposure:**

Wash thoroughly with running water. Get medical advice if irritation develops.

**C. TOXICITY DATA**

(RTECS, 1982)

Oral rat LD50: 4220 mg/kg. Reproductive effects cited. Irritation data: 30mg/3D-1 mild.

**SECTION 6 Occupational Control Measures**

**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 the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

**SECTION 7 Storage and Special Information**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

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