



Chief Medical Supplies Ltd.
411 – 19 Street, S. E.
Calgary, AB., Canada.
T2E 6J7
1.866.620.6034

Safety Data Sheet Sodium Bicarbonate

Document No. M-D6-010

Section I – Product and Company Identification

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

CAS No.: 144-55-8

Molecular Weight: 84.01

Chemical Formula: NaHCO₃

Product Code: BP-650, BP-38, HC-760, HC-1100

Company Identification:

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For information, call:

1-403-207-6034

Emergency Number:

1-403-207-6034

Section II – Hazards Identification

Appearance: Clear

Physical State: Liquid

Odor: None

Hazards of Product: None

Potential Health Hazards: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Sodium Bicarbonate	NaHCO ₃	144-55-8	99-100%

Section IV – First Aid Measures

Skin Contact: If irritation should occur to broken or abraded skin, wash with copious amounts of water.

Eye Contact: If irritation should occur, flush with copious amounts of water. Obtain medical attention if eye irritation persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section V – Fire Fighting Measures

Conditions of flammability:	Not flammable
Means of extinction:	Not flammable
Flash point and method of determination:	Not flammable
Upper flammable limit:	Not available
Lower flammable limit:	Not available
Auto-ignition temperature:	Not available
Hazardous combustion products:	Not available
Explosion data - sensitivity to mechanical impact:	Not available
Explosion data - sensitivity to static discharge:	Not available

Section VI – Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section VII – Handling and Storage

Handling Procedures: Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids.

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

Section VIII – Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyewear:	Safety glasses or goggles
Gloves:	Protective gloves
Clothing:	Lab coat
Respirator:	Dust respirator

Section IX – Physical and Chemical Properties

Physical state: Solid

Odour and appearance: Odourless

Odour threshold: Not available

Specific gravity: Density: 2.159 (Water = 1)

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation rate: Not available

Boiling point: Not available

Freezing point: Not available

pH (1% soln/water): Not available

Coefficient of water/oil distribution: Not available

Taste: Saline, alkaline

Dispersion Properties: See solubility in water.

Solubility: Soluble in cold water. Slightly soluble in alcohol.

Section X – Stability and Reactivity

Stability: Stable

Conditions to avoid: Acids and moisture

Incompatible materials: Reactive with acids.

Conditions of reactivity: Stable in dry air, but slowly decomposes in moist air

Hazardous decomposition products: Not available

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section XI – Toxicological Information

Route of entry: Inhalation. Ingestion.

Effects of acute exposure: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Effects of chronic exposure: Chronic toxicity usually occurs within 4 to 10 days following ingestion of very large amounts. Repeated or prolonged ingestion or inhalation of large amounts may cause metabolic abnormalities, and sodium retention. Metabolic abnormalities such as acidosis, hypernatremia, hypochloremia, alkalosis, hypocalcemia, or sodium retention may affect the blood, kidneys, respiration (cyanosis, apnea secondary to metabolic acidosis or pulmonary edema), and cardiovascular system (tachycardia, hypotension). Severe toxicity may also affect behavior/central nervous system/nervous system. Neurological changes may result from metabolic abnormalities. These may include fatigue, irritability, dizziness, mental confusion, paresthesia, seizures, tetany, cerebral edema. Medical Conditions Aggravated by Exposure: Persons with pre-existing skin conditions might have increased sensitivity. Predisposing conditions that contribute to a mild alkali syndrome include, renal disease, dehydration, and electrolyte imbalance, hypertension, sarcoidosis, congestive heart failure, edema, or other sodium retaining conditions.

Exposure limits: Not available

Section XII – Ecological Information

Ecotoxicity: Not available

BOD5 and COD: Not available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available

Section XIII – Disposal Considerations

Waste disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section XIV – Transport Information

Special shipping information: Not available

Transport of Dangerous Goods (TDG): None

Department of Transportation (DOT): None

International Maritime Dangerous Goods (IMO): None

International Civil Aviation Organization (ICAO): None

Section XV – Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Sodium bicarbonate

WHIMIS classification: Not controlled under WHMIS (Canada).

OSHA: Not hazardous under 29 CFR 1910.1200

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.): Health Hazard: 1 Fire Hazard: 0 Reactivity: 0 Personal Protection: E National Fire Protection Association (U.S.A.): Health: 2 Flammability: 0 Reactivity: 1 Specific hazard: None

Section XVI – Other Information

MSDS creation date: Aug 15, 2014

Last revision date: Jan 11, 2023

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Chief Medical Supplies be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Chief Medical Supplies has been advised of the possibility of such damages.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR