



Section 1 – Company Information

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Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Sodium Bicarbonate
CAS NUMBER 144-55-8
SYNONYM Baking Soda, Bicarbonate of Soda

PRODUCT	CAS NUMBER	% BY WEIGHT
Sodium Bicarbonate	144-55-8	100% wt.

Section 3 – Hazards Identification

Classification of substance or mixture

Not hazardous substance or mixture

Emergency Overview: White, odorless, granular solid. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat.

Potential Health Effects: No significant health effects anticipated.

Section 4 – First Aid Measures

Eyes: Flush with plenty of water. Get medical attention if irritation occurs and persists.

Skin: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

Ingestion: Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

Notes to Medical Doctor: Internal toxicity is low. Treatment is symptomatic and supportive.

Section 5 – Fire Fighting Measures

Extinguishing Media: Water, water fog, carbon dioxide (CO₂), dry chemical

Fire/Explosion Hazards: None

Firefighting Procedures: None

Flammable Limits: Not applicable

Hazardous Combustion Products: None



Sensitivity to Impact: None
Sensitivity to Static Discharge: None

Section 6 – Accidental Release Measures

Personal Precautions: Refer to Section 8.

Clean-Up: This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations.

Notification Requirements: Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

Section 7 – Handling & Storage

Handling: Use air conveying/mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship, or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generated.

Storage: Protect from excessive heat and moisture. Store away from acids.

Comments: Use general room dilution or local exhaust ventilation when excessive dust is expected in the work environment.

Section 8 – Exposure Controls & Personal Protection

Engineering Controls: Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment.

Personal Protective Equipment

Eyes and Face: Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

Respiratory: Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

Protective Clothing: Dry product is generally non-irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation after long exposures when moisture is present. Under such conditions, gloves and long-sleeved clothing are recommended to minimize skin contact.

Additional Exposure Guidelines: Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material: N/A



Particulates Not Otherwise Regulated

OSHA (PEL/TWA): 15 mg/m³ (total dust); 5 mg/m³ (resp fraction)

MSHA (PEL/TWA): 10 mg/m³ (total dust)

The information noted above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protection equipment (PPE).

Section 9 – Physical & Chemical Properties

Odor: Odorless

Appearance: White, granular solid.

Auto-ignition Temperature: Not applicable

Boiling Point: Not applicable

Coefficient of Oil/Water: Not available

Density/Weight per Volume: 0.88 g/mL

Evaporation Rate: Not applicable (Butyl Acetate=1)

Flash Point: Non-combustible

Melting Point: Decomposes

Odor Threshold: Not applicable

Oxidizing Properties: Not applicable

Percent Volatile: Not available

pH: 8.3 (1% solution)

Solubility in Water (20°C/68°F): 9.0% by wt.

Specific Gravity: 2.20 (H₂O=1)

Vapor Density: Not applicable (Air=1)

Vapor Pressure: Not available

Section 10 – Stability & Reactivity Data

Conditions to Avoid: Contact with acids except under controlled conditions.

Stability: Stable

Polymerization: Will not occur

Incompatible Materials: Reacts with acids to release carbon dioxide gas and heat.

Hazardous Decomposition Products: None

Section 11 – Toxicological Information

Eye Effects: Non-irritating (rabbit) J. Amer. Coll. Toxicol. 1987

Skin Effects: Non-irritating (rabbit) J. Amer. Coll. Toxicol. 1987

Dermal LD50: No data available for the product.

Oral LD50: 20% slurry: 4,300 mg/kg (rat)

50 % slurry: 6,000 mg/kg (rat) Gosselin, Smith & Hodge, Clinical Tox. of Comm. Products, 1984

Inhalation LC50: No data available for the product.



Target Organs: None

Acute Effects from Overexposure: This product, when dry, is generally non-irritating to intact skin. However, when moisture is present, it can be irritating to damaged skin and can create irritation after long exposures. This product is approved for use as a food ingredient and is Generally Recognized As Safe (GRAS). No significant acute toxicological effects expected.

Chronic Effects from Overexposure: Administration of large doses of sodium bicarbonate to patients with renal insufficiency can produce systemic alkalosis.

Carcinogenicity

NTP: Not listed

IARC: Not listed

OSHA: Not listed

Other: (ACGIH) Not listed

Section 12 – Ecological Information

Ecotoxicological Information: 48hr LC50 = 2000 mg/L (Culex sp. Larvae or mosquito)

Chemical Fate Information: No data available for the product

Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14 – Transportation Data

U.S. Department of Transportation (DOT)

Additional Information: This material is not regulated in transportation.

International Maritime Dangerous Goods (IMDG)

Additional Information: Not regulated

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

Additional Information: Not regulated

Other Information

Canadian Transport (TDG): This material is not regulated when transported by road in Canada.



Section 15 – Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not listed

Section 312 Threshold Planning Quantity (40 CFR 370): The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs.; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.: No TPQ for this product

Section 313 Reportable Ingredients (40 CFR 372): Not listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act)

CERCLA Designation & Reportable Quantities (RQ) (40 CFR 302.4):

Not applicable

TSCA (Toxic Substance Control Act)

TSCA Inventory Status (40 CFR 710): Listed

Resource Conservation and Recovery Act (RCRA)

RCRA Identification of Hazardous Waste (40 CFR 261):

Waste Number: Not available

Canada

WHMIS (Workplace Hazardous Materials Information System): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Section 16 – Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.