

MATERIAL SAFETY DATA SHEET

SODIUM BICARBONATE

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: SODIUM BICARBONATE
Product Use: Personal Care Formulations – Bath Salts
Company Name: Natural Sourcing
Company Address: 341 Christian Street, Oxford, CT 06478, USA
Date Issued: 8/19/2008
Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Chemical Name & Synonyms: Sodium Bicarbonate, Baking Soda, Bicarbonate of Soda
Components:
Sodium Bicarbonate 100%
CAS #: 144-55-8
Hazardous Components: None

3. HAZARDS IDENTIFICATION

Emergency Overview: White, odorless, granular solid
Product is non-combustible
Reacts with acid to release carbon dioxide gas and heat
Potential Health Effects: No significant health effects anticipated

4. FIRST AID MEASURES

Eyes: Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
Skin: Wash with soap and water. Seek medical attention if irritation occurs or persists.
Ingestion: Drink plenty of water. If any discomfort persists, seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.
Medical Conditions Generally Aggravated by Exposure: None
Notes to Physician: Internal toxicity is low. Treatment is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

Flash Point (Method Used): N/A
Flammable Limits LEL: N/A
UEL: N/A
Hazardous Combustion Products: None

Extinguishing Media:

- Dry Chemical
- Carbon Dioxide
- Water
- Fog

Special Firefighting Procedures: None

Unusual Fire & Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Protection: See Section 8

Environmental Protection: Federal regulations do not require notification for spills of the product. State and local regulations may contain different requirements; consult local authorities.

Methods for Cleaning Up:

- Vacuum or sweep up and dispose of in accordance with state and local regulations.

7. HANDLING AND STORAGE

Handling

Safe 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 dust cloud generated.

Storage

Requirements for Storage Areas and Containers: Store in a cool, dry location, away from acids.

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

8. EXPOSURE CONTROL/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 Protection

Eye: Safety glasses with side shields are recommended.

Skin/Body: Gloves and long sleeved clothing are recommended to minimize skin contact.

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.

Ventilation: General mechanical or local exhaust ventilation are recommended to prevent the release of airborne dust into the work environment.

Other: Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

Work/Hygiene Practice: Normal work and hygiene practices

Additional Exposure Guidelines: Federal guidelines treat the ingredient(s) in this product as 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.

Particulates Not Otherwise Regulated:
OSHA (PEL/TWA): 15 mg/m³ (total dust); 5 mg/m³ (respirable 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).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granular solid
Color:	White
Odor:	Odorless
Specific Gravity (H₂O = 1):	2.20
Density/Weight per Volume:	0.88g/ml
Vapor Pressure (mm Hg.):	N/A
Vapor Density (AIR = 1):	N/A
pH:	8.3 (1% solution)
Flash Point:	Non-combustible
Boiling Point:	N/A
Melting Point:	Decomposes
Evaporation Rate:	N/A
Solubility in Water:	9.0% by wt @ 20C (68F)

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Contact with acids except under controlled conditions.
Incompatibility (Materials to Avoid):	Reacts with acids to release carbon dioxide gas and heat.
Hazardous Decomposition or Byproducts:	Oxides of carbon
Hazardous Polymerization:	Will Not Occur

11. TOXICOLOGICAL INFORMATION

Eye Effects:	Non-irritating
Skin Effects:	Non-irritating
Dermal LD50:	No data available
Oral LD50:	20% slurry: 4,300 mg/kg (rat) 50% slurry: 6,000 mg/kg (rat)
Inhalation LC50:	NO data available
Target Organs:	None
Acute Effect 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:
Carcinogenicity:

Administration of large doses of sodium bicarbonate to patients with renal insufficiency can produce systemic alkalosis.
No (NTP, IARC, OSHA)

12. ECOLOGICAL INFORMATION

Ecological Information: 48 hour LC50: 2000 mg/L Culex sp Mosquito larvae

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: When this product is discarded of, as purchased it is neither a characteristic nor a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). As a non-hazardous waste, the material may be disposed of in a landfill in accordance with government regulations: check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

14. TRANSPORT INFORMATION

DOT Classification: Not regulated
Class/Division: Not applicable
IMDG: Not regulated
ADR: Not regulated

15. REGULATORY INFORMATION

United States

SARA Title III: **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: **CERCLA Designation & Reportable Quantities (RQ) (40 CFR 302.4):**
Not applicable

TSCA : **TSCA Inventory Status (40 CFR 710) :**
Listed

RCRA: **RCRA Identification of Hazardous Waste (40 CFR 261):**
Waste Number: Refer to Section 13 "Disposal Considerations" for RCRA status.

Canada

WHMIS: **Product Identification Number:** None
Hazard Classification/Division: None
Ingredient Disclosure List: Not listed

HMIS: **Health: 0**
Flammability: 0

NFPA:

Physical Hazard: 0
Personal Protection: B (Safety Glasses)
Health: 0
Flammability: 0
Reactivity: 0
Special: None

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.
This product is not considered hazardous.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.