

Rhodia

BAKING SODA

SODIUM BICARBONATE
 Date Prepared: 2/16/00
 Supersedes Date: 12/18/95

1. PRODUCT AND COMPANY DESCRIPTION

RHODIA INC.
 RHODIA PHOSPHATE PRODUCTS
 CN 7500
 Prospect Plains Road
 Cranbury NJ 08512-7500
 Emergency Phone Numbers:
 FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE
 OR ACCIDENT CONTACT: CHEMTREC (800-424-9300 within the
 United States or 703-527-3887 for international collect
 calls) or Rhodia CAERS (Communication and Emergency
 Response System) at 800-916-3232.
 For Product Information: (800) 243-5052
 Chemical Name or Synonym: BAKING SODA; BICARBONATE OF SODA;
 SODIUM HYDROGEN CARBONATE
 Molecular Formula: NaHCO3

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
SODIUM BICARBONATE	144-55-8	N	100

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor: white powder solid, odorless.
 Warning Statements: Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling it.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye: Slightly irritating.
 Acute Skin: Slightly irritating.
 Acute Inhalation: Low acute inhalation toxicity. May cause coughing, upper respiratory tract irritation.
 Acute Ingestion: Low acute oral toxicity. May cause nausea, vomiting, abdominal pain.
 Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.
 Skin Exposure: In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.
 Inhalation: Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

Ingestion: If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point: Not Applicable
 Extinguishing Media: Not combustible. Use extinguishing method suitable for surrounding fire.
 Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
 Unusual Fire and Explosion Hazards: Not combustible.
 Hazardous Decomposition Materials (Under Fire Conditions): oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Ventilate closed spaces before entering.
 Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill.
 Cleanup and Disposal of Spill: Sweep or vacuum up and place in an appropriate closed container (see Section 7: Handling and Storage).
 Environmental and Regulatory Reporting: Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in a appropriate container for disposal. Large spills should be handled according to a predetermined plan. For assistance in developing a plan contact the Technical Service Department using the Product Information phone number in Section 1.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: Not Available
 Handling: Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts.
 Storage: Store in an area that is dry, cool.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

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Exposure Guidelines: Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:

PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION:

Notes	TWA	STEL
OSHA	5 mg/cu m	

Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures.

Respiratory Protection: When respirators are required, select NIOSH/MSHA, approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and fumes.

Eye/Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance: white powder solid.

Odor: odorless.

pH: 8.5 at 1 wt/wt%.

Specific Gravity: Not Available

Water Solubility: soluble 9.5 wt/wt% at 20 C (68 F).

Melting Point Range: Not Available

Boiling Point Range: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

Molecular Weight: 84

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided: elevated temperatures heat
Materials/Chemicals To Be Avoided: moisture, strong acids, strong oxidizing agents

Decomposition Temperature Range: 270 C (518 F)

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: thermal oxides of carbon
Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization: not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

Toxicological Information and Interpretation: eye - eye irritation, 100 mg/30s, rabbit. Mildly irritating.

Acute Skin Irritation:

Toxicological Information and Interpretation: skin - skin irritation, 30 mg/3D-I, human. Mildly irritating. Standard Draize Test.

Acute Dermal Toxicity: No test data found for product.

Acute Respiratory Irritation: No test data found for product.

Acute Inhalation Toxicity: No test data found for product.

Acute Oral Toxicity:

Toxicological Information and Interpretation: LD50 - lethal dose 50% of test species, 4220 mg/kg, rat.

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens. No additional test data found for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found for product.

Chemical Fate Information: No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal: Rinse containers before disposal.

EPA Hazardous Waste - NO

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation

Shipping Name: NOT REGULATED

15. REGULATORY INFORMATION

Inventory Status:

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	Y
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

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 Y = All ingredients are on the inventory.
 E = All ingredients are on the inventory or exempt from listing.
 P = One or more ingredients fall under the polymer exemption or are on me no longer polymer list. All other ingredients are on the inventory or exempt from listing.
 N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS

Inventory Issues: All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

- Fire Hazard - NO
- Reactive Hazard - NO
- Release of Pressure - NO
- Acute Health Hazard - NO
- Chronic Health Hazard - NO

OTHER FEDERAL REGULATIONS:

FDA Status:
 This product meets the compositional requirements of:
 21 CFR 184.1736 SODIUM BICARBONATE
 STATE REGULATIONS: This product does not contain any components that are regulated under California Proposition 65.

 16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings-
 NFPA(R):

- Health Hazard Rating-Minimal: 0
- Flammability Rating-Minimal: 0
- Instability Rating-Minimal: 0

National Paint & Coating Hazardous Materials Identification
 System-HMIS(R):

- Health Hazard Rating-Minimal: 0
- Flammability Rating-Minimal: 0
- Reactivity Rating-Minimal: 0

Reason for Revisions: Regulatory Review and Update.

Key Legend Information:

- ACGIH - American Conference of Governmental Industrial Hygienists
- OSHA - Occupational Safety and Health Administration
- TLV - Threshold Limit Value
- PEL - Permissible Exposure Limit
- TWA - Time Weighted Average
- STEL - Short Term Exposure Limit
- NTP - National Toxicology Program
- IARC - International Agency for Research on Cancer
- ND - Not determined
- RPI - Rhone-Poulenc Established Exposure Limits

 Disclaimer: The information herein is given in good faith but no warranty, expressed or implied, is made.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

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 COMPAS Code: 51640020
