

CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS



MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-099

ISSUE DATE: 04/23/01

PAGE 1 OF 5

1. PRODUCT IDENTIFICATION

Product Name

Sodium Carbonate Monohydrate

Emergency Phone:

1-609-683-5900 (USA)

Medical Emergency Phone:

1-800-228-5635 Ext. 007 (USA)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredient</u>	<u>% By Weight</u>	<u>CAS Number</u>
Sodium Carbonate	≅ 85%	497-19-8
Water	≅ 15%	7732-18-5

Contains no other hazardous ingredients at 1% or more (0.1% for carcinogens) as listed or defined in 29 CFR 1910.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White granular powder, no odor.
May be harmful if swallowed or inhaled.
A severe eye irritant.
A moderate skin irritant.
Not a fire hazard.

<u>HMIS Rating</u>	
Health	2
Fire	0
Reactivity	0

Potential Health Effects

EYE: Severe irritant. Potential for burns and injury if not treated immediately.

SKIN CONTACT: Various severities of irritation are possible upon prolonged, repeated or occluded contact.

INGESTION: Slightly toxic. Ingestion may cause abdominal discomfort and irritation of the oral and alimentary mucosa. Ingestion may also present a potential aspiration hazard.

INHALATION: Inhalation of dusts may cause irritation to the nose, throat and lungs.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None known. Sodium carbonate is not listed as a carcinogen or potential carcinogen by IARC, NTP, OSHA, OR ACGIH.

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MSDS NUMBER: MSDS-099

ISSUE DATE: 04/23/01

PAGE 2 OF 5

4. FIRST AID MEASURES

EYES: Immediately flush eyes with clean flowing water, occasionally lifting upper and lower eyelids. After a few minutes, check for and remove contact lenses if present. Continue flushing for 15 minutes. Get medical attention immediately.

SKIN: Wash affected area with soap or mild detergent and large amounts of water. Seek medical attention if irritation develops.

INHALATION: Remove from area of exposure. Treat symptomatically. Seek medical attention if irritation develops or if person has difficulty breathing.

INGESTION: Do not induce vomiting. If patient is conscious and can swallow, give two glasses of water to drink. Do not attempt to give anything orally to an unconscious person. Seek medical attention.

NOTE TO PHYSICIAN: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: Not flammable
METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: Not applicable
UFL: Not applicable

EXTINGUISHING MEDIA: None combustible material. Use extinguishing media appropriate for surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Carbon dioxide and irritating dusts may be generated by thermal decomposition. Wear a self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear).

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

Scoop up into clean, dry waste container. Avoid stirring up dusts. Neutralize residue with dilute muriatic acid and flush residue to sewer or waste water system. Wash area with large amounts of water. Prevent eye and skin contact and inhalation of dusts by wearing appropriate protective equipment (See Section 8).

7. HANDLING AND STORAGE

Store in cool, dry areas and away from incompatible substances (acids).

Sodium carbonate monohydrate will react with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and carbon dioxide levels have been determined to be safe.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS



MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-099

ISSUE DATE: 04/23/01

PAGE 3 OF 5

RECOMMENDED EXPOSURE LIMIT: 10 mg/m³ as a nuisance dust (ACGIH).

RESPIRATORY PROTECTION: Wear a NIOSH approved dust respirator if dust level exceeds recommended exposure limit. Respiratory protection is recommended for any level of dust generation.

PROTECTIVE GLOVES: General purpose for handling dry material.

EYE PROTECTION: Safety glasses with side shields or chemical safety goggles if excessive dust is generated. Do not wear contact lenses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full cover clothing. Local eye wash is recommended.

ENGINEERING CONTROLS: Use local exhaust if total dust level exceeds 10 mg/m³.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements other than those noted above with respect to chemical exposure during handling. Personal protection with respect to specific applications of this material are the responsibility of the user.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White granular powder

ODOR: None

PHYSICAL STATE: Solid

pH (1% SOLN. w/v): 11.4

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

BOILING POINT: Not applicable

FREEZING/MELTING POINT: Not applicable

SOLUBILITY IN WATER: Readily soluble in water. 20% @20°C

BULK DENSITY (g/cc): 75 lb/Ft³

% VOLATILE: Not applicable

VOLATILE ORGANIC COMPOUNDS: Not applicable

MOLECULAR WEIGHT: 124

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Loses water of hydration at temperatures above 53°C (128°F).

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to form carbon dioxide. May yield corrosive caustic soda if mixed with lime (as CaO or Ca(OH)₂) and moisture (e.g., water or perspiration).

10. STABILITY AND REACTIVITY (cont'd)

CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS



MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-099

ISSUE DATE: 04/23/01

PAGE 4 OF 5

HAZARDOUS DECOMPOSITION PRODUCTS: Can yield sodium oxide at temperatures above 850°C.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: A severe eye irritant.

SKIN EFFECTS: A moderate skin irritant. May produce various severities of irritation on prolonged, repeated or occluded contact.

ACUTE ORAL EFFECTS: Although low in toxicity ($LD_{50} \sim 3000 - 4000$ mg/kg), may cause corrosion of gastric mucosa and gastrointestinal disturbances such as heaves, vomiting, abdominal pain.

INHALATION EFFECTS: Dusts either inhaled or aspirated during ingestion may cause mucous membrane and upper respiratory irritation.

12. DISPOSAL CONSIDERATIONS

Bury in secure landfill in accordance with all local, state and federal environmental regulations. State and local regulations may differ from federal. Be sure to consult appropriate agencies for specific rules. Empty containers may be incinerated or discarded as general trash.

13. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated

TECHNICAL SHIPPING NAME: Sodium Carbonate Monohydrate

D.O.T. HAZARD CLASS: None

U.N./N.A. NUMBER: None

HAZARDOUS SUBSTANCE/RQ: None

D.O.T. LABEL: None

D.O.T. PLACARD: None

14. REGULATORY INFORMATION

The components of this material are reported in the US EPA TSCA Inventory and the Canadian DSL.

CERCLA REPORTABLE QUANTITY: None

RCRA: Not a hazardous material or a hazardous waste by listing or characteristic.

SARA TITLE III:

Section 302, Extremely Hazardous Substances: None

Section 311/312, Hazardous Categories: Immediate (Acute)

Section 313, Toxic Chemicals: None

15. MISCELLANEOUS INFORMATION

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CONSUMER PRODUCTS • SPECIALTY PRODUCTS



MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-099

ISSUE DATE: 04/23/01

PAGE 5 OF 5

This material is not listed as a carcinogen or potential carcinogen by NTP Annual Report, IARC Group I or II, OSHA 29 CFR Part 1910 Subpart Z, or ACGIH Appendix A.

FDA: Sodium Carbonate is affirmed as a GRAS direct food additive (21 CFR 184.1742).

EUROPEAN INVENTORY (EINECS NUMBER): 207-838-8 (Sodium Carbonate)

SUPERSEDES DATE: 04/17/98

REASON FOR REVISION: Review, reformat and reissue. Minor changes to Section 2 (add OSHA hazardous ingredient statement), Section 4 (revise statement on first aid for eyes), and Section 9 (delete pH "as is"). Add additional regulatory information to Section 14. Add new Section 15 for Miscellaneous Information.

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