

CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS



MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-910

ISSUE DATE: 10/26/07

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1. PRODUCT IDENTIFICATION

Product Names

SQ-810[®] RUMEN BUFFER

Emergency Phone:

1-609-683-5900 (U.S.A.)

Medical Emergency Phone:

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

Chemical Name: Sodium Sesquicarbonate.
Synonyms: Inorganic Sodium Compounds
Chemical Formula: Na₂CO₃ • NaHCO₃•2H₂O

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Brown-gray granular material.
Odorless
May irritate eyes and skin. Dust may irritate the upper respiratory tract.
Not a fire hazard
Reacts with acids to release carbon dioxide and heat.

HMIS Rating

Health	2
Fire	0
Reactivity	0

Potential Health Effects

EYE: May irritate on direct contact.

SKIN: Continuous, repeated or occluded contact may cause varying degrees of skin irritation.

INGESTION: Ingestion of small amounts (< a tablespoon) may cause irritation and abdominal pain. Ingestion of large amounts may cause injury.

INHALATION: Inhalation of airborne dust may irritate mucous membranes and the upper respiratory tract.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None known. See Section 11 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredient</u>	<u>% by Weight</u>	<u>CAS Number</u>
Natural Sodium Sesquicarbonate	98-100%	6106-20-3
(May contain silica, crystalline quartz)	<0.4%	14808-60-7
H ₂ O Insolubles	<2.0%	NA



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4. FIRST AID MEASURES:

EYES: IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

SKIN: Wash thoroughly with soap and water. Remove contaminated clothing and discard or wash before reuse. IF IRRITATION OCCURS GET MEDICAL ATTENTION.

INHALATION: Remove to fresh air. If breathing is difficult, have a trained person administer oxygen. If respiration has stopped have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, wash out mouth with water provided the person is conscious. GET MEDICAL ATTENTION IMMEDIATELY.

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 combustible

METHOD USED: Not applicable

FLAMMABLE LIMITS

LEL: Not applicable

UFL: Not applicable

EXTINGUISHING MEDIA: Non-combustible material. Use extinguishing media appropriate for surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Sodium oxide, a thermal decomposition product existing at temperatures above 1564°F is a respiratory, eye and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide dusts. Use a self-contained breathing apparatus (SCBA) and full protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

Wear personal protective equipment (See Section 8). Scoop up into clean dry container for disposal. Wash affected area with large amounts of water.

7. HANDLING AND STORAGE

Avoid exposure by wearing personal protective equipment (See Section 8). Store in a cool, dry area away from incompatible substances.

Product reacts 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.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT: Sodium Sesquicarbonate as Total dust = 10 mg/m³ (ACGIH); 15 mg/m³ (OSHA) for particulates not otherwise classified (PNOC). Respirable fraction = 5mg/m³.

Exposure limit for silica, crystalline quartz = 10 mg/m³ ÷ %SiO₂ +2 (Respirable); 30 mg/m³ ÷ %SiO₂ +2 (Total dust)

ENGINEERING CONTROLS: Use local or general exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY PROTECTION: Wear a NIOSH approved respirator if total dust level exceeds 10 mg/m³.

PROTECTIVE GLOVES: General purpose for handling dry material. Impervious gloves when working with solutions.

EYE PROTECTION: Chemical goggles or safety glasses with side shields. Do not wear contact lenses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full cover clothing. Apron where splashing may occur when working with solutions.

PROTECTIVE WORK/HYGENIC PRACTICES: No special requirements with respect to chemical exposure beyond those provided above. Personal protection with respect to specific applications of this material is the responsibility of the user.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brown-gray granular material

ODOR: None

PHYSICAL STATE: Solid

pH (1% SOLN. w/v): 10.5

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% w/w 30°C (86°F)

SPECIFIC GRAVITY (Water = 1): 2.25

APPARENT DENSITY: 0.9 g - 1.1 g/cc

% VOLATILE: Not applicable

VOLATILE ORGANIC COMPOUNDS: Not applicable

MOLECULAR WEIGHT: 228

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Loses all water of hydration at temperatures above 228°F.

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to release carbon dioxide

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HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide evolves when mixed with acids. Yields sodium oxide if exposed to temperatures above 1564°F. Avoid inhalation, eye and skin contact with sodium oxide.

HAZARDOUS POLYMERIZATION: Not applicable

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL: Material has low toxicity. LD50 4090 mg/kg Rat, LC50- Inhalation 2300 mg/m³/2hr. Rat.
CARCINOGENICITY: Not classified as carcinogenic by NTP, IARC, OSHA, ACGIH or NIOSH. ***This product may contain a small amount of naturally occurring silica, crystalline quartz (< 0.4%) which is listed by IARC and NTP as a known human carcinogen when present in the form of fine, breathable dust particles as may be generated during industrial and occupational activities (e.g., mining).***

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No specific data available for this product. Based on data generated for sodium bicarbonate and other carbonate salts, this product would be considered practically non-toxic to the aquatic organisms daphnids, bluegill, and trout (EC₅₀ or LC₅₀ >100 mg/L).
BIODEGRADABILITY: Does not apply to inorganic substances.

13. DISPOSAL CONSIDERATIONS

Bury in secure landfill in accordance with all local, state and federal environmental regulations. Empty containers may be incinerated or discarded as general trash.

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated
TECHNICAL SHIPPING NAME: Sodium Sesquicarbonate
D.O.T. HAZARD CLASS: None
U.N./N.A. NUMBER: None

15. REGULATORY INFORMATION

TSCA: This material is reported in EPA TSCA Inventory List.

SARA TITLE III:

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

Section 311 Hazard Category (40 CFR 370): Immediate (Acute)

Section 313 Toxic Chemicals (40 CFR 372): Not listed

CERCLA REPORTABLE QUANTITY (40 CFR 302.4): None

RCRA (40 CFR 261): Not a hazardous material or a hazardous waste by listing or characteristic.

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CLEAN AIR ACT - PROTECTION OF STRATOSPHERIC OZONE (40 CFR 82): This material neither contains nor is it manufactured with ozone depleting substances.

FEDERAL WATER POLLUTION CONTROL ACT (40 CFR 401.15): This material contains no intentionally added or detectable (contaminant) levels of EPA priority toxic pollutants.

16. OTHER INFORMATION

SUPERSEDES DATE: 11/19/04

REASON FOR REVISION: ANSI 07 Update

For additional non-emergency health, environment and safety information telephone 609.279.7705 or write to:

Church & Dwight Co., Inc.
R&D Technical Regulatory Affairs
469 North Harrison Street
Princeton, New Jersey 08543

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