1. PRODUCT IDENTIFICATION

Product Name: Sodium Bicarbonate

Emergency Phone: 1-609-683-5900 (U.S.A.)

Medical Emergency Phone: 1-800-228-5635, Ext. 007 (U.S.A.)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredient (% by wt.)

Sodium Bicarbonate CAS# 144-55-8 100%

3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

White crystalline powder
No odor
Not a fire hazard
No significant health or environmental effects associated with this material.

**HMIS Rating**

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<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
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<td>1</td>
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Potential Health Effects

EYE: Not an eye irritant.

SKIN CONTACT: Not a skin irritant

INGESTION: Material is non-toxic. Small amounts (tablespoonfuls) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

INHALATION: None known.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None known.
4. FIRST AID MEASURES

EYES: Flood with clean lukewarm (not hot) water, low pressure. Remove contacts. Occasionally lift eyelids while flooding the eyes.

INGESTION: If over exposure, do not induce vomiting. If patient is conscious and can swallow, administer milk or water.

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
LFL: Not applicable
UFL: Not applicable

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

FIRE-FIGHTING INSTRUCTIONS: Carbon Dioxide may be generated making necessary the use of a self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear). Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another 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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

Scoop up into dry, clean containers. Wash away residue with water.

7. HANDLING AND STORAGE

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

Sodium Bicarbonate 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 and oxygen levels have been determined to be safe.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Dust mask required if total dust level exceeds 10 mg/m³.

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

EYE PROTECTION: Safety glasses. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystalline powder.

ODOR: None.

PHYSICAL STATE: Solid

pH AS IS: Not Applicable

pH (1% SOLN. w/v): 8.2

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY: Not applicable.

BOILING POINT: Not applicable.

FREEZING/MELTING POINT: Not applicable.

SOLUBILITY IN WATER: 8.6 g/100 ml @ 68°F.

SPECIFIC GRAVITY (Water = 1): 2.2

APPARENT DENSITY (g/cc): Approximately 1.

% VOLATILE: Not applicable.

VOLATILE ORGANIC COMPOUNDS: Not applicable.

MOLECULAR WEIGHT: 84.02

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Temperatures above 228°F.

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to form carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Heating above 228°F may cause dangerous levels of carbon dioxide gas to be present in confined spaces. 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

EYE EFFECTS: The material was slightly irritating to the rabbit eye, 100mg/24H.

SKIN EFFECTS: Not a skin irritant or dermally toxic.

ACUTE ORAL EFFECTS: Single dose and toxicity is nontoxic. Oral-inf TDLg 1260 mg/kg. Oral-rat LD 4-8 g/kg.

12. DISPOSAL CONSIDERATIONS

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

13. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated

TECHNICAL SHIPPING NAME: Sodium Bicarbonate

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. MISCELLANEOUS INFORMATION

Additional Regulations

Material is reported in EPA TSCA Inventory List . . . . . . . Yes

Is material listed as carcinogen or potential carcinogen?

NTP Annual Report . . . . . . . . . . . . . . . . . No

IARC Group I or II . . . . . . . . . . . . . . . . . No

OSHA 29CFR Part 1910, Subpart 2 . . . . . . . . . . No

ACGIH Appendix A . . . . . . . . . . . . . . . . . No

National Stocking Number - 6810002646618 Contract No. - DLA 40086C1831

SUPERSEDES DATE: 06/24/91