



MATERIAL SAFETY DATA SHEET

Product Name Alkalinity Booster
Product id 2059
Revision date 08/11/2006 **Revision: 2**
Supersedes 29/09/2003

1. Identification of the substance & the company

Chemical name Sodium Bicarbonate
Synonym(s) Baking Soda, Bicarbonate of Soda
Type of product and use Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, feed additive
Supplier NAVA Water Products
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Tel: (304) 746-3000
Emergency Telephone Chemtrec (800)424-9300

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Sodium bicarbonate 144-55-8	100	Not determined	Not determined

3. Hazards identification

Emergency overview *White granules. Product is non combustible. Reacts with acids to release carbon dioxide gas and heat.
No significant health effects anticipated.*

NFPA Ratings (Scale 0-4) Health = 0, Fire = 0, Reactivity = 0.

HMIS Ratings (Scale 0-4) Health = 0, Fire = 0, Reactivity = 0.

4. First-aid measures

Eye contact Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.



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Skin contact Remove contaminated clothing and shoes unless stuck to skin. Rinse with large amounts of water and then water and soap for at least 10 minutes. Locate possible burn signs and refer for medical treatment if necessary. Get medical attention if irritation occurs and persists.

Inhalation In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air.
Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Ingestion If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.

NOTE: Never give an unconscious person anything to drink.

Note to physician Material with low toxicity.
Treat symptomatically and supportively.

5. Fire - fighting measures

Flash point	Non-combustible
Flammable/Explosion limits	Not applicable
Auto-ignition temperature	Not applicable
Suitable extinguishing media	Water, water fog, carbon dioxide (CO2), dry chemical, foam
Fire fighting procedure	None
Unusual fire and explosion hazards	None known

6. Accidental release measures

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Wash spill site with water after material pickup is complete.



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7. Handling and storage

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 the dust cloud generated.

Storage Store in a dry, cool area away from incompatible materials (see "materials to avoid").

8. Exposure controls / personal protection

Ventilation requirements Minimize eye and skin contact by using appropriate protective equipment. Use local exhaust as necessary, especially under dusty conditions.

Personal protective equipment:

- **Respiratory protection** NIOSH approved respirator
- **Hand protection** Protective gloves
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Full body protective clothes and boots.

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking

9. Physical and chemical properties

Appearance White granules
Odor None
Melting point/range Not applicable (decomposes)
Boiling point/range Not applicable
Vapour pressure Not available
Vapor density Not applicable
Evaporation rate (ether=1) Not applicable
Solubility:
- **Solubility in water** 9 g/100ml at 20°C
Density 0.88 g/mL
Specific gravity 2.20
pH 8.3 (1% solution)

10. Stability and reactivity

Stability Stable
Materials to avoid Reacts with acids to release carbon dioxide gas and heat
Conditions to avoid Contact with acids except under controlled conditions



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10. Stability and reactivity

Hazardous decomposition products None
Hazardous polymerization Will not occur

11. Toxicological information

Acute toxicity:
- Rat oral LD50 4300 mg/kg (20% slurry)
6000 mg/kg (50% slurry)
- Eye irritation (rabbit) Not irritant
- Dermal irritation (rabbit) Not irritant

Effects of overexposure: Sodium bicarbonate is a GRAS (Generally Recognized As Safe) food ingredient. No significant toxicity is expected.

Target organ effects None

Chronic toxicity Administration of large doses of sodium bicarbonate to patients with renal insufficiency can produce systemic alkalosis.

Carcinogenicity Not included in NTP 11th Report on Carcinogens. Not classified by IARC, OSHA, EPA.

12. Ecological information

Aquatic toxicity :
- 48 Hour - LC50 2000 mg/l (Culex sp. larvae or mosquito)

13. Disposal considerations

Waste disposal If material cannot be salvaged, an acceptable method is to dispose of uncontaminated product into a 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

DOT Not regulated
IMO Not regulated



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14. Transportation information

ICAO/IATA	Not regulated
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15. Regulatory information

USA	Reported in the EPA TSCA Inventory
Section 302 (EHS): Sara 313	Not listed Not listed
Sara (311, 312) hazard class	Not listed
Canada	Not listed in WHMIS.

16. Other information

This data sheet contains changes from the previous version in section(s)
None

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End of safety data sheet