



MATERIAL SAFETY DATA SHEET

Product Name Azure Alkalinity Booster
Product id 2059-AZ
Revision date 06/12/2006 **Revision: 2**
Supersedes 23/03/2006

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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Medical 1-800-420-9236

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.



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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.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention if irritation occurs.
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	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

Personal precautions	See section "Exposure controls/personal protection".
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
pH	8.3 (1% solution)



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

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.
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14. Transportation information

DOT Not regulated

15. Regulatory information

USA Reported in the EPA TSCA Inventory

Section 302 (EHS): Not listed

Sara 313 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)

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End of safety data sheet