SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Product name **Azure Alkalinity Booster**
Product id AS_2059_AZ
Revision date 15/09/2014 **Revision:** 4
Supersedes 10/08/2011

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1. Identification of the substance & the company

Chemical name Sodium Bicarbonate

Synonym(s) Baking Soda, Bicarbonate of Soda

Molecular weight 84.02

Type of product and use For treatment and balancing of pools, spas and hot tubs

Supplier NAVA Water Products
95 MacCorkle Ave. SW,
South Charleston, WV 25303,
USA
Toll Free Number: 1-800-811-2327

Emergency Telephone Chemtrec: (800) 424-9300
Medical: (800) 420-9236

2. Hazards identification

GHS Product is not subject to classification according to GHS. No label elements required.

GHS classification Not classified

Labels and other form of warning Not classified

Symbol(s) Not required

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

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

3. Composition / information on ingredients

Components	CAS No.	Weight %
SODIUM BICARBONATE	144-55-8	100

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4. First-aid measures

Eye contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention immediately.

Skin contact

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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. Get medical attention immediately. ++. NOTE: Never give an unconscious person anything to drink. ++.

Most important symptoms and effects, acute or delayed

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

- Eye Contact

Not irritant

- Skin contact

Not irritant

- Inhalation

None known

- Ingestion

Material is practically non-toxic. Small amounts (1-2 tablespoonfuls) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full; swallowing larger amounts may cause injury.

Note to physician

Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.
No specific antidote.
Treat symptomatically and supportively.
In case of ingestion DO NOT induce vomiting.

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5. Fire - fighting measures

Suitable extinguishing media	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.
Unusual fire and explosion hazards	When heated to decomposition, may release poisonous fumes of Na2O, CO2.
Fire fighting procedure	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode.

6. Accidental release measures

Personal precautions	Use approved respirator, chemical safety goggles, rubber gloves, boots and protective clothes
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Wash spill site with water after material pickup is complete.
Environmental precautions	Avoid release to the aquatic environment.

7. Handling and storage

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

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8. Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
SODIUM BICARBONATE 144-55-8	Not determined	Not determined

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

Personal protective equipment:

- **Respiratory protection** Dust mask required if total dust level exceeds 10 mg/m^3.
- **Hand protection** Protective gloves
  Impervious gloves (rubber or neoprene)
  (when working with solutions)
- **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 thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and chemical properties

Appearance	White crystalline powder
Odor	None
pH	8.2 (1% solution)
Melting point/range	Not applicable (decomposes)
Boiling point/range	Not applicable
Flash point	Non-combustible
Evaporation rate (ether=1)	Not applicable
Flammable/Explosion limits	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
- Solubility in water	8.6 g/100ml at 20°C
Auto-ignition temperature	Not applicable

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Bulk density	62 lb/Ft3
Specific gravity	2.20

10. Stability and reactivity

Reactivity	Reacts with acids
Stability	Stable
Possibility of hazardous reactions	Sodium Bicarbonate reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces.
Conditions to avoid	Contact with acids except under controlled conditions. Heating above 65 °C.
Materials to avoid	Reacts with acids to release carbon dioxide gas and heat. May yield free caustic in presence of lime dust (CaO) and moisture (i.e., water, perspiration). Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy may occur.
Hazardous decomposition products	Na2O, CO2

11. Toxicological information

Acute toxicity:

- Rat oral LD50	7.3 g/kg
- Rat inhalation LC50	4.74 mg/l
- Eye irritation (rabbit)	Not irritant
- Dermal irritation (rabbit)	Not irritant
Dermal sensitization	Not a sensitizer
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 13th Report on Carcinogens Not classified by IARC, OSHA, EPA.

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12. Ecological information

Aquatic toxicity :

- LC50, Fish	7100 mg/l (Bluegill) 7700 mg/l (Rainbow trout)
- EC50, Crustacea	4100 mg/l (Daphnia)
Persistence and degradability	Not expected to persist in the environment.
Biodegradation	Biodegradation is not relevant for inorganic salts.
Bioaccumulative potential	Not expected to bioaccumulate

13. Disposal considerations

Waste disposal	Dispose of in a landfill in accordance with local, state and federal regulations
Disposal of Packaging	Empty containers should be disposed of in accordance with all applicable laws and regulations

14. Transportation information

DOT	Not regulated

15. Regulatory information

USA	Reported in the EPA TSCA Inventory.
- Section 302 (EHS):	Not listed
CERCLA/SARA - 302 ext. haz. substances	No CERCLA RQ is applicable.

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- SARA 313	Not listed
- SARA (311, 312)	Not listed
Canada	Listed in DSL
EU	Reported in EINECS
Japan	ENCS no. (1)-164 ISHL no. (1)-164
Australia	Listed in AICS
Korea	Listed
Philippines	Listed in PICCS

16. Other information

This data sheet contains changes from the previous version in section(s)
2, 4, 5, 7, 8, 10

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In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.

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End of safety data sheet