



MATERIAL SAFETY DATA SHEET

Product name **Alkalinity Booster**
Product id 2059
Revision date 10/08/2011
Supersedes 08/11/2006

Revision: 3

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
Tel: (304) 746-3000
Emergency Telephone Chemtrec (800)424-9300

2. 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

3. Composition / information on ingredients

Components	CAS No.	Weight %
Sodium bicarbonate	144-55-8	100



MATERIAL SAFETY DATA SHEET

Product name	Alkalinity Booster	
Product id	2059	
Revision date	10/08/2011	Revision: 3
Supersedes	08/11/2006	

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 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

Suitable extinguishing media	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions. Water, water fog, carbon dioxide (CO ₂), dry chemical, foam
Fire fighting procedure	In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode
Unusual fire and explosion hazards	When heated to decomposition, may release poisonous fumes of Na ₂ O, CO ₂ .

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.
--------------------------------	--



MATERIAL SAFETY DATA SHEET

Product name **Alkalinity Booster**
Product id 2059
Revision date 10/08/2011
Supersedes 08/11/2006

Revision: 3

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

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 equipment. Use local exhaust as necessary, especially under dusty conditions.

Personal protective equipment:

- Respiratory protection NIOSH approved respirator
- Hand protection Protective gloves (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 carefully before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and chemical properties

Appearance White crystalline powder
Odour None
Boiling point/range Not applicable
Melting point/range Not applicable (decomposes)
Flash point Non-combustible
Flammable/Explosion limits Not applicable
Auto-ignition temperature Not applicable
Vapour pressure Not available



MATERIAL SAFETY DATA SHEET

Product name **Alkalinity Booster**
Product id 2059
Revision date 10/08/2011
Supersedes 08/11/2006

Revision: 3

9. Physical and chemical properties

Evaporation rate (ether=1) Not applicable
Vapor density Not applicable
Solubility:
- Solubility in water 8.6 g/100ml at 20°C
Bulk density 62 lb/Ft³
Specific gravity 2.20
pH 8.2 (1% solution)

10. Stability and reactivity

Stability Stable
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.
Conditions to avoid Contact with acids except under controlled conditions
Heating above 65 °C
Hazardous decomposition products None
Hazardous polymerization Will not occur

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
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.



MATERIAL SAFETY DATA SHEET

Product name **Alkalinity Booster**
Product id 2059
Revision date 10/08/2011
Supersedes 08/11/2006

Revision: 3

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.

Bioaccumulative potential Not expected to bioaccumulate

13. Disposal considerations

Waste disposal Dispose in a safe manner in accordance with local/national regulations.

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) Not listed

Canada Listed in DSL

16. Other information

This data sheet contains changes from the previous version in section(s)
1, 5, 8, 9, 10, 11, 12, 13, 15



MATERIAL SAFETY DATA SHEET

Product name Alkalinity Booster
Product id 2059
Revision date 10/08/2011
Supersedes 08/11/2006

Revision: 3

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, NAVA Water Products makes no representations as to the completeness or accuracy thereof.

Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use.

In no event will NAVA Water Products be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

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

End of safety data sheet