



MATERIAL SAFETY DATA SHEET

Product Name: Alkalinity Increase
Product id: AQZSBC005 / AQZSBC010 / AQZSBC025
Revision date: 11/08/2006 Revision: 2

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 W.W. Adcock
P.O. Box 492
Huntingdon Valley, PA 19006
(215)947-3801
Emergency Transportation Chem Tel - 888-255-3924

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.
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.



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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



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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
Vapor 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
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



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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, and 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.
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14. Transportation information

DOT	Not regulated
IMO	Not regulated
ICAO/IATA	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

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, W.W. Adcock makes no representations as to the completeness or accuracy thereof.



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End of safety data sheet