



Aqua Chemical Supply, Inc.

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1. PRODUCT AND COMPANY IDENTIFICATION

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

Manufacturer/Supplier/Distributor

W.W. Adcock

P.O. Box 492

Huntingdon Valley, PA 19006

Emergency telephone number: For emergency assistance involving chemicals call

CHEMTREC day or night at: 1-800-424-9300

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

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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 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 (CO ₂), dry chemical, foam
Firefighting 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.
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
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
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 CONSIDERATION

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. TRANSPORT 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

Notice

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Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

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