

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

Product name
Product id
Revision date
Supersedes

ProTech Alkalinity Increaser

AS_2059_PT 15/09/2014 10/08/2011

Revision: 4

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 minu contact lenses, if present, after the first 5 minutes, then continue rins medical attention immediately.	
Skin contact	Rinse skin immediately with plenty of water for 15-20 minutes. Call a control center or doctor for treatment advice.	n poison
Inhalation	In case of dust inhalation or breathing fumes released from heated n remove person to fresh air. Keep him quiet and warm. Apply artificia necessary and get medical attention immediately.	
Ingestion	If swallowed, wash mouth thoroughly with plenty of water. Get medi immediately. ++++++++++++++++++++++++++++++++++++	

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.

5. Fire - fighting measures

Suitable extinguishing media

media Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.



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Unusual fire and explosion hazards	When heated to decomposition, may release poisonous fumes of Na	a2O, CO2.
Fire fighting procedure	Fire fighters should wear full protective clothing and self-contained apparatus (SCBA) in positive pressure mode.	breathing

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").	

8. Exposure controls / personal protection

Exposure Limits :

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

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/m³.



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- 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

White crystalline powder None 8.2 (1% solution) Not applicable (decomposes) Not applicable Non-combustible Not applicable Not applicable Not applicable 8.6 g/100ml at 20°C Not applicable
62 lb/Ft3 2.20

10. Stability and reactivity

Reactivity Stability	Reacts with acids 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



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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 re- insufficiency can produce systemic alkalosis.	nal
Carcinogenicity	Not included in NTP 13th Report on Carcinogens Not classified by IARC, OSHA, EPA.	

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



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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.		
- 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		



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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.

Prepared by	North America Regulatory Affairs ICL-IP America Inc. 95 MacCorkle Ave.,S.W. South Charleston,WV 25303, USA Phone number:(304)746-3000
Prepared for	Windo 6934 East 1st Avenue #101 Scottsdale, AZ 85251 Tel: (480) 945-4154

End of safety data sheet