



## MATERIAL SAFETY DATA SHEET

Product Name: pH Plus  
Product id: 9020-AZ  
Revision date: 12/23/2008

### 1. Identification of the substance & the company

**Chemical name** Sodium carbonate, anhydrous  
**Synonym(s)** Soda salt, soda crystal, disodium carbonate, soda ash  
**Chemical formula** Na<sub>2</sub>CO<sub>3</sub>  
**Molecular weight** 105.99  
**Supplier** NAVA Water Products  
95 MacCorkle Ave. SW, South Charleston, WV 25303, USA  
Tel: (304) 746-3000  
**Emergency Telephone** Chemtrec (800)424-9300

### 2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
SODIUM CARBONATE 497-19-8	100	Not determined	Not determined

### 3. Hazards identification

**Emergency overview** *Odorless, white granules.  
Severe irritant to eyes*

**Potential Health Effects:**  
- **Eye Contact** Severe irritant.  
- **Skin contact** Not irritant to intact skin.

**NFPA Ratings (Scale 0-4)** Health = 2, Fire = 0, Reactivity = 0.  
**HMIS Ratings (Scale 0-4)** Health = 2, 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. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes.



# MATERIAL SAFETY DATA SHEET

<b>Product Name:</b>	<b>pH Plus</b>
<b>Product id:</b>	<b>9020-AZ</b>
<b>Revision date:</b>	<b>12/23/2008</b>

Wash clothing before re-use.  
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** Treat symptomatically and supportively.

## 5. Fire - fighting measures

<b>Flash point</b>	Non-combustible
<b>Flammable/Explosion limits</b>	Not flammable
<b>Auto-ignition temperature</b>	Not applicable

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

**Fire fighting procedure** In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

**Unusual fire and explosion hazards** None known

## 6. Accidental release measures

**Personal precautions** See section "Exposure controls/personal protection".

**Methods for cleaning up** Shovel into suitable container for disposal. Ventilate area and wash spill site after material pickup is complete. Observe all federal, state and local environmental regulations.



## MATERIAL SAFETY DATA SHEET

**Product Name:** pH Plus  
**Product id:** 9020-AZ  
**Revision date:** 12/23/2008

### 7. Handling and storage

**Handling** Avoid prolonged or repeated contact with skin or eyes. Do not wear contact lenses without proper eye protection when using this product. Avoid prolonged or repeated breathing of dusts. Use vacuum or wet mop to clean up dust.

**Storage** Keep in a closed, properly labeled container in a dry area away from acids. Protect from physical damage.

### 8. Exposure controls / personal protection

**Ventilation requirements** Provide adequate ventilation.

**Personal protective equipment:**

- **Respiratory protection** In case of significant or accidental dust emissions, NIOSH approved dust mask should be worn
- **Hand protection** Cotton gloves are adequate for routine handling of dry product
- **Eye protection** Safety glasses or goggles In cases of significant dust, goggles are recommended
- **Skin and body protection** Body covering 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** 851°C (1564°F)  
**Boiling point/range** Not applicable  
**Vapor pressure** Not applicable  
**Vapor density** Not applicable  
**Solubility:**

- **Solubility in water** 33% maximum by weight in water

**Specific gravity** 2.533(20°C)  
**pH** 11.3 (1% solution)  
**Decomposition temperature** > 400°C

### 10. Stability and reactivity



## MATERIAL SAFETY DATA SHEET

Product Name:	pH Plus
Product id:	9020-AZ
Revision date:	12/23/2008

Stability	Stable under normal conditions
Materials to avoid	Acids
Hazardous decomposition products	Carbon dioxide (CO <sub>2</sub> ) is evolved at very high temperatures (1000°C, 1832°F) or when mixed with acids
Hazardous polymerization	Will not occur

### 11. Toxicological information

Acute toxicity:	
- Eye irritation (rabbit)	Severe irritant
- Dermal irritation (rabbit)	Not irritant. Minor irritation to abraded skin.
Effects of overexposure:	May cause severe irritation to the eyes. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract.
Chronic toxicity	No data available
Carcinogenicity	Not classified by IARC, OSHA, EPA. Not included in NTP 11th Report on Carcinogens.

### 12. Ecological information

Environmental Effects	Irrigation on fields or vegetable gardens: Less than 60 mg/l - no risk; between 60 mg/l and 130 mg/l medium risk; more than 130 mg/l - risk for legumes of vegetable gardens, wheat, etc.
Aquatic toxicity :	
- 48 Hour-LC50, Daphnia magna	115-150 mg/l

### 13. Disposal considerations

Waste disposal	Observe all federal, state and local environmental regulations when disposing of this material.
----------------	---



## MATERIAL SAFETY DATA SHEET

**Product Name:** pH Plus  
**Product id:** 9020-AZ  
**Revision date:** 12/23/2008

### 14. Transportation information

**DOT** Not regulated  
**IMO** Not regulated  
**ICAO/IATA** Not regulated

### 15. Regulatory information

**USA** Reported in the EPA TSCA Inventory

**Cercla/Sara - 302 ext. haz. substances** This product contains no Hazardous Substances listed in 40 CFR Part 302.

**Sara (311, 312) hazard class** Hazard Class - Acute  
Planning threshold: 10,000 lbs

**- California-Prop 65** This product does not contain any ingredient known to the State of California to cause cancer or reproductive toxicity as listed under the State drinking Water and Toxic Enforcement Act of 1986.

**- WASTE CLASSIFICATIONS** This material does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40CFR 261.33.  
Not listed under CERCLA

### 16. Other information

**This data sheet contains changes from the previous version in section(s)**

None

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 MERCHANTABILITY, 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**