



SAFETY DATA SHEET

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

Product name	AquaZone pH Minus	
Product id	AS_9081_AQ	
Revision date	28/10/2014	Revision: 4
Supersedes	14/07/2011	

1. Identification of the substance & the company

Chemical name	Sodium bisulfate, anhydrous globular, technical
Synonym(s)	Sodium acid sulfate
Chemical formula	NaHSO ₄
Type of product and use	pH adjustment for 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 classification Eye Damage 1, H318 Causes serious eye damage

Labels and other form of warning

Symbol(s)



Signal Word DANGER

Hazard statements H318 - Causes serious eye damage

Precautionary statements P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician

NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 0.

HMIS Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 0



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3. Composition / information on ingredients

Components	CAS No.	Weight %
SODIUM BISULPHATE	7681-38-1	>90

4. First-aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion Call poison control center, or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, acute or delayed

- **Eye Contact** Causes severe eye damage.
- **Skin contact** Prolonged exposure may cause skin irritation
- **Inhalation** Inhalation of dust may irritate or burn nose, throat and lungs.
- **Ingestion** Small amounts (tablespoonful) swallowed are not likely to cause injury; however swallowing large amounts may irritate or burn digestive tract.

Note to physician Corrosive
No specific antidote.
Treat symptomatically and supportively.



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5. Fire - fighting measures

Suitable extinguishing media	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions. Because material will readily dissolve in water to form a weak acid solution, avoid water contact with material if possible.
Unusual fire and explosion hazards	Will decompose above 806°F (430°C) releasing poisonous and corrosive fumes of sulfur oxides.
Fire fighting procedure	Product readily dissolves in water to form a weak acid solution. If using water, wear acid protective equipment. No gases or toxic fumes are emitted from this reaction. However, if elevated temperatures (> 806°F) are reached, self-contained breathing apparatus should be worn.

6. Accidental release measures

Personal precautions	Do not breathe dust See section "Exposure controls/personal protection".
Methods for cleaning up	Vacuum or shovel material and place in disposal container. Avoid excessive dust generation. Dilute residual material with ample supply of water and direct to sanitary sewer if Federal, State or Local regulations permit.
Environmental precautions	Prevent entry into sewers and watercourses
- Water	Readily dissolves in water to form a weak acid solution. If water is isolated or can be contained, neutralize with weak alkaline solution.

7. Handling and storage

Handling	Wear all recommended personal protective clothing when handling. Avoid contact with eyes. Wash thoroughly after handling. Minimize dust generation. Avoid breathing dust.
Storage	Material is hygroscopic and will readily absorb moisture. Keep containers tightly closed. DO NOT store where exposed to moist conditions. DO NOT store near strong alkalis.



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8. Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
SODIUM BISULPHATE 7681-38-1	Not determined	Not determined

Ventilation requirements Ventilation must be sufficient to maintain airborne of total dust below 15 mg/m³, respirable fraction 5 mg/m³, OSHA recommendation for Particulates Not Otherwise Regulated (PNOR).

Personal protective equipment:

- **Respiratory protection** In dusty atmospheres use a NIOSH-approved dust respirator.
- **Hand protection** Rubber gloves
- **Eye protection** Safety glasses with side-shields
- **Skin and body protection** Cotton-blend coveralls

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

Appearance Off white granules
Physical state Dry (Anhydrous) crystalline solid, spherical shape beads
Odor Fresh to pungent
pH <1 @ 5% aqueous solution
Melting point/range 350°F (177°C)
Flash point Not applicable
Flammable/Explosion limits Not flammable/Not explosive
- Solubility in water Partly soluble
Specific gravity 1.28

10. Stability and reactivity

Reactivity Hygroscopic
Stability Stable at normal conditions
Possibility of hazardous reactions Not expected to occur
Conditions to avoid Exposure to moisture.



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Materials to avoid	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. DO NOT MIX dry or concentrated solutions of this product with concentrated solutions of chlorine bleach, ammonia cleansers or similar products.
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Hazardous decomposition products	Sulfur oxides (>430°C)
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11. Toxicological information

Acute toxicity:

- Rat oral LD50	2800 mg/kg
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Carcinogenicity	Not classified by IARC, OSHA, EPA. Not included in NTP 13th Report on Carcinogens
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12. Ecological information

Information on ecological effects

This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product is likely to be acutely harmful to fish and other aquatic organisms.

Aquatic toxicity :	No information available
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13. Disposal considerations

Waste disposal	Dispose in a safe manner in accordance with local/national regulations.
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Disposal of Packaging	Empty packaging may contain product residues and due consideration should be given prior to disposal
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14. Transportation information

DOT	Not regulated
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IMDG	Not regulated
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ICAO/IATA	Not regulated
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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 313	Not listed
- SARA (311, 312)	Sodium bisulfate: Immediate (acute) health hazard, Delayed (chronic) health hazard
- New Jersey Right-to-Know Hazardous Substances list	Listed
- 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.
Canada	Listed in DSL
-WHMIS hazard class	E corrosive material

16. Other information

This data sheet contains changes from the previous version in section(s)
2, 4, 6, 10, 15

All sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

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 SDS and the English version of it, the English version shall prevail.



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End of safety data sheet