



# SAFETY DATA SHEET

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

|                      |                           |                    |
|----------------------|---------------------------|--------------------|
| <b>Product name</b>  | <b>Azure pH Decreaser</b> |                    |
| <b>Product id</b>    | AS_9081_AZ                |                    |
| <b>Revision date</b> | 28/10/2014                | <b>Revision: 4</b> |
| <b>Supersedes</b>    | 14/07/2011                |                    |

## 1. Identification of the substance & the company

|                                |  |
|--------------------------------|--|
| <b>Chemical name</b>           | Sodium bisulfate, anhydrous globular, technical  |
| <b>Synonym(s)</b>              | Sodium acid sulfate  |
| <b>Chemical formula</b>        | NaHSO <sub>4</sub>   |
| <b>Type of product and use</b> | pH adjustment for pools, spas and hot tubs   |
| <b>Supplier</b>                | NAVA Water Products<br>95 MacCorkle Ave. SW,<br>South Charleston, WV 25303,<br>USA<br>Toll Free Number: 1-800-811-2327 |
| <b>Emergency Telephone</b>     | Chemtrec: (800) 424-9300<br>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



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

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

### 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.



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|                    |  |
|--------------------|--|
| <b>- Ingestion</b> | Small amounts (tablespoonful) swallowed are not likely to cause injury; however swallowing large amounts may irritate or burn digestive tract. |
|--------------------|--|

|                          |   |
|--------------------------|---|
| <b>Note to physician</b> | Corrosive<br>No specific antidote.<br>Treat symptomatically and supportively. |
|--------------------------|---|

### 5. Fire - fighting measures

|   |  |
|---|--|
| <b>Suitable extinguishing media</b>       | 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.  |
| <b>Unusual fire and explosion hazards</b> | Will decompose above 806°F (430°C) releasing poisonous and corrosive fumes of sulfur oxides.   |
| <b>Fire fighting procedure</b>            | 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

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Do not breathe dust See section "Exposure controls/personal protection".  |
| <b>Methods for cleaning up</b>   | 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. |
| <b>Environmental precautions</b> | Prevent entry into sewers and watercourses  |
| <b>- Water</b>                   | Readily dissolves in water to form a weak acid solution. If water is isolated or can be contained, neutralize with weak alkaline solution.  |



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## 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.

## 8. Exposure controls / personal protection

**Exposure Limits :**

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

**Ventilation requirements** Ventilation must be sufficient to maintain airborne of total dust below 15 mg/m<sup>3</sup>, respirable fraction 5 mg/m<sup>3</sup>, 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



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| <b>pH</b>                         | <1 @ 5% aqueous solution    |                    |
| <b>Melting point/range</b>        | 350°F (177°C)               |                    |
| <b>Flash point</b>                | Not applicable              |                    |
| <b>Flammable/Explosion limits</b> | Not flammable/Not explosive |                    |
| <b>- Solubility in water</b>      | Partly soluble              |                    |
| <b>Specific gravity</b>           | 1.28                        |                    |

### 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | Hygroscopic  |
| <b>Stability</b>                          | Stable at normal conditions  |
| <b>Possibility of hazardous reactions</b> | Not expected to occur  |
| <b>Conditions to avoid</b>                | Exposure to moisture.  |
| <b>Materials to avoid</b>                 | 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. |
| <b>Hazardous decomposition products</b>   | Sulfur oxides (>430°C)   |

### 11. Toxicological information

|                        |  |
|------------------------|--|
| <b>Acute toxicity:</b> |  |
| - Rat oral LD50        | 2800 mg/kg   |
| <b>Carcinogenicity</b> | Not classified by IARC, OSHA, EPA.<br>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

### 13. Disposal considerations

**Waste disposal** Dispose in a safe manner in accordance with local/national regulations.

**Disposal of Packaging** Empty packaging may contain product residues and due consideration should be given prior to disposal

### 14. Transportation information

**DOT** Not regulated

**IMDG** 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 313** Not listed

**- SARA (311, 312)** Sodium bisulfate: Immediate (acute) health hazard, Delayed (chronic) health hazard



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| <b>- New Jersey Right-to-Know Hazardous Substances list</b> | Listed   |                    |
| <b>- California-Prop 65</b>                                 | 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. |                    |
| <b>Canada</b>   | Listed in DSL  |                    |
| <b>-WHMIS hazard class</b>                                  | 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.*

**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



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Tel: (304) 746-3000

**End of safety data sheet**