

Product Name	pH Decreaser	
Product id	9081	
Revision date	28/09/2006	Revision: 2
Supersedes	27/07/2003	
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### 1. Identification of the substance & the company

Chemical name	Sodium bisulfate, anhydrous globular, technical	
Synonym(s)	Sodium acid sulfate, Nitre cake, Sodium hydrogen sulfate	
Chemical formula	NaHSO 4	
Molecular weight	120	
Type of product and use	Cleaning compounds, pH adjustment	
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 BISULPHATE 7681-38-1	91.5-94.7	Not determined	Not determined
Sodium sulfate 7757-82-6	4.8-8.0	Not determined	Not determined
Water 7732-18-5	0.1-0.8	Not determined	Not determined

### 3. Hazards identification

Emergency overview	Off-white granular material, with the consistency of salt. Causes eye irritation May cause skin and respiratory tract irritation.	
Potential environmental effects	Material in dry form is not hazardous to the environment. However it readily dissolves in water to form a weak acid solution. Therefore, keep out of streams and ditches.	
Potential Health Effects: - Eye Contact	Causes mild to severe irritation. May cause burns if not flushed with water.	



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- Skin contact	Prolonged exposure may cause moderate irritation. May cause burns if no with water.	_ ot flushed
- 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.	
Chronic effects/Carcinogenicity	Not known to cause cancer.	
NFPA Ratings (Scale 0-4)	Health = 1, Fire = 0, Reactivity = 0.	
HMIS Ratings (Scale 0-4)	Health = 1, Fire = 0, Reactivity = 0.	

### 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 advise.
Skin contact	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise.
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 advise.
Ingestion	Call poison control center, or doctor immediately for treatment advise. 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.

### 5. Fire - fighting measures

Flash point	Not applicable	
Flammable/Explosion limits	Not explosive/Not flammable	
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.	



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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 emmitted from this reaction. However, if elevated temperatures (> 806°F) are reached, self-contained breathing apparatus should be worn.	
Unusual fire and explosion hazards	Will decompose above 806°F (430°C) releasing poisonous and corrosive fumes of sulfur oxides.	
6. Accidental release meas	sures	
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.	
- 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 thorougly after handling. Minimize dust generation. Avoid breathing dust.	
Storage	Material is hygroscopic and will readilly absorb moisture. Keep containers tightly closed. DO NOT store where exposed to moist conditions. DO NOT store near strong alkalies.	
8. Exposure controls / per	rsonal protection	
Ventilation requirements	Ventilation must be sufficient to maintain airborne of nuisance dust below 15 mg/m <sup>3</sup> OSHA recommendation for Particulates Not Otherwise Regulated (PNOR).	
<ul> <li>Personal protective equipment:</li> <li>Respiratory protection</li> <li>Hand protection</li> <li>Eye protection</li> <li>Skin and body protection</li> <li>Hygiene measures</li> </ul>	NIOSH approved respirator Rubber gloves Safety glasses or goggles Body covering clothes and boots 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 Physical state Off white granules Dry (Anhydrous) crystalline solid, spherical shape beads Page 3 of 6



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Odor Melting point/range Solubility: - Solubility in water pH	Fresh to pungent 350°F (177°C) 1080 g/l @ 68°F (20°C) <1 @ 5% aqueos solution
10. Stability and reactivity	
Stability Materials to avoid	Stable Avoid contact with strong alkaline material such as caustic. Dissolves readily in water to form a weak acid solution. DO NOT MIX with liquid chlorine bleach, ammonia cleansers or similar products.
Hazardous decomposition products Hazardous polymerization	Sulfur oxides (>430°C) Will not occur
11. Toxicological informat	ion
Toxicity	No human data are available for this product.
Toxicity Acute toxicity: - Rat oral LD50 Effects of overexposure:	No human data are available for this product. 2800 mg/kg This material is neither corrosive nor destructive. Occasionally, a very slight rash may appear.
Toxicity Acute toxicity: - Rat oral LD50 Effects of overexposure: Carcinogenicity	No human data are available for this product. 2800 mg/kg This material is neither corrosive nor destructive. Occasionally, a very slight rash may appear. Not classified by IARC, OSHA, EPA. Not included in NTP 11th Report on Carcinogens.
Toxicity Acute toxicity: - Rat oral LD50 Effects of overexposure: Carcinogenicity 12. Ecological information	No human data are available for this product. 2800 mg/kg This material is neither corrosive nor destructive. Occasionally, a very slight rash may appear. Not classified by IARC, OSHA, EPA. Not included in NTP 11th Report on Carcinogens.
Toxicity Acute toxicity: - Rat oral LD50 Effects of overexposure: Carcinogenicity 12. Ecological information Information on ecological effects Environmental fate	No human data are available for this product. 2800 mg/kg This material is neither corrosive nor destructive. Occasionally, a very slight rash may appear. Not classified by IARC, OSHA, EPA. Not included in NTP 11th Report on Carcinogens. This product redily 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. Material will decompose in soil. Studies show that there are no adverse effects of applying the main ingredient in this product (sodium bisulfate), directly to crops. However, do not apply excessive quantities to soil



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13. Disposal consideration	15
Waste disposal	If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA), 40CFR Part 261. Dispose of in accordance with local, State and Federal laws and regulations.
14. Transportation inform	ation
DOT	Not regulated
IMO	Not regulated
ICAO/IATA	Not regulated
15. Regulatory information	n
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) hazard class - New Jersey right-to-know list	Hazard Class - Acute Listed Special hazardous Substances-Corrosive
- 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.
- Workplace Classification	This product is classified as an Irritant by definition of OSHA Hazard Communication Standard (29CFR 1910.1200).
Canada - Cepa	Listed in DSL Listed in WHMIS. Controlled Product Hazard Class D2B. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. All components of this product are acceptable for use under the provisions of CEPA



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EEC No.	231-665-7	
Japanese METI	1-83, 1-491, 1-1501	
Australia	Listed in AICS	
China inventory	Listed	
Korea	Listed in ECL (KE- 31481)	

### 16. Other information

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

3, 10, 12

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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