



MATERIAL SAFETY DATA SHEET

Product Name: pH Minus
Product id: AQZSBS006
Revision date: 09/28/2006
Revision: 2

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 NaHSO₄
Molecular weight 120
Type of product and use Cleaning compounds, pH adjustment
Supplier W.W. Adcock
P.O. Box 492
Huntingdon Valley, PA 19006
(215)947-3801
Emergency Transportation Chem Tel - 888-255-3924

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.



MATERIAL SAFETY DATA SHEET

Product Name:	pH Minus	
Product id:	AQZSBS006	
Revision date:	09/28/2006	Revision: 2

- **Skin contact** Prolonged exposure may cause moderate irritation. May cause burns if not flushed with water.
- **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 advice.
- Skin contact** 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.

5. Fire - fighting measures

- Flash point** Not applicable
- Flammable/Explosion limits** Not explosive/Not flammable



MATERIAL SAFETY DATA SHEET

Product Name:	pH Minus	
Product id:	AQZSBS006	
Revision date:	09/28/2006	Revision: 2

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.
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.
Unusual fire and explosion hazards	Will decompose above 806°F (430°C) releasing poisonous and corrosive fumes of sulfur oxides.

6. Accidental release measures

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 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

Ventilation requirements	Ventilation must be sufficient to maintain airborne of nuisance dust below 15 mg/m ³ OSHA recommendation for Particulates Not Otherwise Regulated (PNOR).
Personal protective equipment:	
- Respiratory protection	NIOSH approved respirator
- Hand protection	Rubber gloves
- Eye protection	Safety glasses or goggles
- Skin and body protection	Body covering clothes and boots



MATERIAL SAFETY DATA SHEET

Product Name:	pH Minus	
Product id:	AQZSBS006	
Revision date:	09/28/2006	Revision: 2

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	Off white granules
Physical state	Dry (Anhydrous) crystalline solid, spherical shape beads
Odor	Fresh to pungent
Melting point/range	350°F (177°C)
Solubility:	
- Solubility in water	1080 g/l @ 68°F (20°C)
pH	<1 @ 5% aqueous solution

10. Stability and reactivity

Stability	Stable
Materials to avoid	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.
Conditions to avoid	Exposure to moisture
Hazardous decomposition products	Sulfur oxides (>430°C)
Hazardous polymerization	Will not occur

11. Toxicological information

Toxicity	No human data are available for this product.
Acute toxicity:	
- Rat oral LD50	2800 mg/kg
Effects of overexposure:	This material is neither corrosive nor destructive. Occasionally, a very slight rash may appear.
Carcinogenicity	Not classified by IARC, OSHA, EPA. Not included in NTP 11th Report on Carcinogens.

12. Ecological information



MATERIAL SAFETY DATA SHEET

Product Name:	pH Minus	
Product id:	AQZSBS006	
Revision date:	09/28/2006	Revision: 2

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.

Environmental fate 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.

Germany, water endangering classes (WGK) 1

13. Disposal considerations

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 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 313	Not listed
Sara (311, 312) hazard class	Hazard Class - Acute
- New Jersey right-to-know list	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



MATERIAL SAFETY DATA SHEET

Product Name:	pH Minus	
Product id:	AQZSBS006	
Revision date:	09/28/2006	Revision: 2

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 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.

- Cepa All components of this product are acceptable for use under the provisions of CEPA

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

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, W.W. Adcock 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 W.W. Adcock 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 MERCHANT ABILITY, 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.

End of safety data sheet