

## Section 1. Product and Company Identification

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### Identification:

Product Name: MINNCLEAN® AC

Company Identification: Minntech Corporation  
14605 28<sup>th</sup> Avenue North  
Minneapolis, MN 55447  
1-800-328-3340  
(763) 553-3300

Emergency Telephone Number: CHEMTREC 1-800-424-9300, or (703) 527-3887

## Section 2. Composition / Information on Ingredients

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Component	CAS #	Amount (percentage by Weight)	PEL
Sulfamic Acid	5328-14-6	>10	PNOC

PNOC (Particulate Not Otherwise Classified): Respirable Fraction 5 mg/m<sup>3</sup> and Total Dust 15 mg/m<sup>3</sup>.

Unlisted ingredients are not "hazardous" and are considered to be trade secrets per OSHA Standards.

## Section 3. Hazards Identification

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**Appearance:** White Powder  
**Physical State:** Solid  
**Odor:** None  
**Hazards of Product:** Corrosive

### Potential Health Effects

**Inhalation:** Not an expected route of exposure. Inhalation of dust may irritate and may damage upper respiratory tract and lungs.  
**Ingestion:** Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure.  
**Skin Contact:** Contact with skin can cause irritation, burns if wet.  
**Eye Contact:** Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

## Section 4. First Aid Measures

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**Eyes and Skin:** Flush with large amounts of water for at least 15-20 minutes, raise eyelids for complete rinsing. If burn or irritation has occurred, seek medical attention. If clothing is contaminated, remove clothing, wash skin and wash clothing before reusing.  
**Ingestion:** If swallowed, drink 1 to 2 large glasses of water or milk. Do not attempt to induce vomiting.  
**Inhalation:** If inhaled, move to fresh air.

## Section 5. Fire Fighting Measures

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**Flash Point:** N/A  
**Flammable Limits:** N/A  
**Extinguishing Media:** Water, Foam CO<sub>2</sub>, Dry Chemicals.  
**Unusual Fire and Explosion Hazards:** Does not support combustion

## Section 6. Accidental Release Measures

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This product as a powder does not meet the classification of a hazardous waste as defined by the EPA (40CFR261). Liquid solutions of this product are corrosive, and can be a hazardous waste (D003). If spilled in a dry or powder form, sweep up and do not reuse. If there is a spill in a liquid state, put on the appropriate Personal Protective Equipment and contain the spill. Do not flush this product to the sewer or any open body of water. Do not try to reuse the product. Dispose of this product in accordance with all applicable, Federal, State and Local regulations.

## Section 7. Handling and Storage

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**General Handling:** Store in a cool, dry location  
**Ventilation:** Local Exhaust

## Section 8. Exposure Controls / Personal Protection

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**Eyewear:** ANSI approved safety glasses or goggles. A face shield should be worn when splashes are likely.  
**Gloves:** Protective rubber gloves should be worn.  
**Clothing:** A protective apron should be worn when splashes are likely. Rubber boots should be used for spill response.  
**Respirator:** If air contamination is above the permitted levels (Particulate Not Otherwise Classified: Respirable Fraction 5mg/m<sup>3</sup> and Total Dust 15 mg/m<sup>3</sup>), use an NIOSH approved respirator.

## Section 9. Physical and Chemical Properties

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**Physical State:** Solid  
**Appearance:** White Powder  
**pH (as a concentrate):** 1.9 – 2.1 (when mixed as a liquid)  
**Solubility in Water (by weight):** Complete (when mixed as a liquid)  
**Odor:** None  
**Molecular Weight:** ND  
**Boiling Point (760 mmHg):** ND  
**Freezing Point:** ND  
**Specific Gravity (H<sub>2</sub>O =1):** ND  
**Vapor Pressure at 20°C:** ND  
**Vapor Density (air = 1):** ND  
**Evaporation Rate (Butyl Acetate=1):** ND  
**Melting Point:** ND

## Section 10. Stability and Reactivity

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**Conditions to Avoid:** Extreme humidity  
**Incompatible Materials:** Chlorinated solutions or compounds, alkalis, strong oxidizers.  
**Hazardous Polymerization:** Will not occur.  
**Hazardous Decomposition:** None Known.

## Section 11. Toxicological Information

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### Cancer Related Information:

Ingredient	CAS #	NTP	IARC	OSHA
Sulfamic Acid	5328-14-6	Known: NO Anticipated: NO	None	NO

## Section 12. Ecological Information

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**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## Section 13. Disposal Considerations

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Dispose of this product in accordance with all applicable, Federal, State and Local regulations.

## Section 14. Transport Information

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NON-Bulk

**Proper Shipping Name:** Sulfamic Acid

**Hazard Class:** Corrosive, 8

**UN Number:** 2967

**Packing Group:** III

## Section 15. Regulatory Information

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### International Inventory Status:

Ingredient	CAS #	EC	Japan	Australia	Korea	Canada: DSL	Canada: NDSL
Sulfamic Acid	5328-14-6	YES	YES	YES	YES	YES	NO

### United States:

Ingredient	CAS #	OSHA	CAA	CWA	RCRA	SARA 302	SARA 313	TSCA
Sulfamic Acid	5328-14-6	YES	YES	YES	NO	NO	NO	NO

**CA Proposition 65:** This product contains chemical(s) regulated by CA Proposition 65.

**WHMIS (Canada):** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

## Section 16. Other Information

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### NFPA Ratings:

Flammability: 0  
Health: 3  
Reactivity: 0  
Specific Hazard: Corrosive

### HMIS Ratings:

Flammability: 0  
Health: 3  
Reactivity: 0  
PPE: B

**Origination Date:** 9/7/94

**Revision Date:** 7-10-06

**Prepared by:** Risk Manager