

## 1. Identification of the substance/preparation and of the company/undertaking

**Product Name** Minnclean AC

**UN/ID No.** UN2967

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Acidic Cleaning Compound

**Uses advised against** None

### Supplier Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

### Emergency telephone number

Chemtrec 1-800-424-9300

## 2. Hazards identification

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Skin Corrosion/Irritation** Category 1 Sub-category C

**Serious Eye Damage/Irritation** Category 1

### Label Elements

Signal word: **Danger**

#### **Hazard Statements**

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician. Specific treatment (see Section 4 on the SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### **Hazards not otherwise classified (HNOC)**

##### **Other Information**

May irritate respiratory tract.



## 3. Composition/information on ingredients

Chemical Name	CAS Number	% by Weight
Trade Secret	Trade Secret	1 - 5
Sulfamic acid	5329-14-6	7 - 13

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

---

## 4. First aid measures

---

**Eye contact**

Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

**Skin Contact**

Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

**Inhalation**

Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.

**Ingestion**

Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

**Self-protection of the first aider**

Avoid contact with eyes and skin.

### **Most important symptoms and effects, both acute and delayed**

**Symptoms**

Temporary redness, inflammation of eyes and skin.

### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Treat symptomatically

---

## 5. Fire-fighting measures

---

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

May product irritating or hazardous oxides when heated to decomposition.

**Hazardous combustion products**

Oxides of sulfur, sodium and phosphorus, ammonia

### **Explosion Data**

**Sensitivity to mechanical impact** None

**Sensitivity to static discharge** None

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

---

## 6. Accidental release measures

---

### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment. Remove ignition sources.

**Environmental precautions**

See Section 12 for additional ecological information. Prevent entry into waterways, sewers, basements.

**Methods for containment**

Completely contain spilled material with dikes or sand bags, etc.

**Methods for cleaning up**

Recover as much material as possible into containers for disposal or reuse. Avoid dust formation. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

---

## 7. Handling and storage

---

### **Precautions for safe handling**

**Advice on safe handling**

Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation. Do not eat, drink or smoke in work areas.

## **Conditions for safe storage, including any incompatibilities**

### **Storage Conditions**

Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

### **Incompatible materials**

Avoid contact with strong acids, strong oxidizing agents, aluminum, magnesium, cyanides, nitrates, sulfides, chlorine, hypochlorous acid or hypochlorites. Store separated from nitrates and nitric acid as sulfamic acid can react violently with nitrates, sometimes explosive!

---

## **8. Exposure controls/personal protection**

---

### **Control parameters**

#### **Exposure Guideline**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Trade Secret Trade Secret	10 mg/m4 TWA		

### **Appropriate engineering controls**

Showers  
Eyewash stations  
Ventilation systems

### **Individual protection measures, such as personal protective equipment**

#### **Eye/face protection**

Wear safety glasses with side shields (or goggles).

#### **Skin and body protection**

Skin and body protection If contact is anticipated, wear protective clothing appropriate to use conditions.

#### **Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

---

## **9. Physical and chemical properties**

---

### **Information on basic physical and chemical properties**

<b>Physical state</b>	Powder
<b>Color</b>	White
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	2.1 - 2.7, pH 1% solution
<b>Melting point/freezing point</b>	No information available
<b>Boiling point / boiling range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability upper limit in air</b>	No information available
<b>Flammability lower limit in air</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	No information available
<b>Water solubility</b>	Soluble in water
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available

---

## **10. Stability and reactivity**

---

### **Reactivity**

No information available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Sulfamic acid may react violently with nitrates and nitric acid, sometimes even leading to explosion

**Conditions to avoid**

Moisture. Avoid reacting with cyanides, nitrates, sulfides, chlorine, hypochlorous acid or hypochlorite.

**Incompatible materials**

Avoid contact with strong acids, strong oxidizing agents, aluminum, magnesium, cyanides, nitrates, sulfides, chlorine, hypochlorous acid or hypochlorites. Store separated from nitrates and nitric acid as sulfamic acid can react violently with nitrates, sometimes explosive!

**Hazardous Decomposition Products**

Oxides of sulfur, sodium and phosphorus, ammonia

## 11. Toxicological information

### Information on likely routes of exposure

**Product Information**

**Inhalation** May cause irritation.  
**Eye contact** Causes serious eye irritation.  
**Skin Contact** Causes skin irritation.  
**Ingestion** May cause gastrointestinal upset, nausea, vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfamic acid 5329-14-6	LD50 Or al rat 3,160 mg/kg LD50 Oral mouse 1,312 mg/kg		

### Information on toxicological effects

**Symptoms** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available  
**Germ cell mutagenicity** No information available  
**Carcinogenicity** Not applicable

Chemical Name	ACGIH	IARC	NTP	OSHA

**Reproductive toxicity** No information available  
**STOT - single exposure** No information available  
**STOT - repeated exposure** No information available  
**Aspiration hazard** No information available

### Numerical measures of toxicity - Product Information

No information available

## 12. Ecological information

**Ecotoxicity**

No information available

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sulfamic acid 5329-14-6	Algae: ErC50 (72 h): 48 mg/L test mat. (no minal) (OECD TG 201, 2010)	Fish: LC50 (96 h, Pimephales promelas): 70.3 mg/L test mat. (meas. (geom. mean)) (OECD TG 203, 1981)	Daphnia: EC50 (24 h, Daphnia magna): 71.6 mg/L test mat. (nominal) (OECD TG 202, 2010)

**Persistence and degradability** No information available  
**Bioaccumulation** No information available  
**Other adverse effects** No information available

## 13. Disposal considerations

### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.  
**Contaminated packaging** Do not reuse container.

Chemical Name	California Hazardous Waste Status
---------------	-----------------------------------

## 14. Transport information

**DOT**  
**UN/ID No.** UN2967  
**Proper shipping name** Sulfamic Acid  
**Hazardous ingredients**  
**Hazard class** 8  
**Packing group** III

## 15. Regulatory information

### US Federal Regulations

#### SARA 311/312 Hazards

Skin Corrosion/Irritation  
 Serious Eye Damage/Irritation

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
---------------	-----------------------	------------------	---------------------	----------------------

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
---------------	--------------------------	----------------	--------------------------

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

## 16. OTHER INFORMATION

**NFPA** Health hazards 2 Flammability 0 Instability 0 **Physical and Chemical Properties**  
**HMIS** Health hazards 2 Flammability 0 Physical hazards 0 **Personal protection** X  
**Prepared By** lmt  
**Issue Date** 2022-11-08  
**Revision Date** 2022-11-08  
**Revision Note** Review and update

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**