

# SAFETY DATA SHEET

## 1. Identification

Product identifier **SULFAMIC ACID 99.8% CRY GSO**  
Other means of identification None.  
Recommended use **ALL PROPER AND LEGAL PURPOSES**  
Recommended restrictions None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

Company name  
Address

#### RESEARCH PRODUCTS, INC. OF ALABAMA

P.O. BOX 705

6311 HIGHWAY 90 WEST

THEODORE, ALABAMA 36590

OFF. (205) 653-0030

FAX (205) 653-0036

Telephone

E-mail

Emergency phone number

#### FOR CHEMICAL EMERGENCY

Spill, Leak, Exposure or Incident

Call **INFOTRAC** • 24-Hour Number:

**1-800-535-5053** or +1-352-323-3500 (outside USA)

## 2. Hazard(s) identification

Physical hazards Corrosive to metals Category 1  
Health hazards Skin corrosion/irritation Category 1  
Serious eye damage/eye irritation Category 1  
Environmental hazards Not classified.  
OSHA defined hazards Not classified.

### Label elements



Signal word

Danger

Hazard statement

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention

Keep only in original container. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Storage

Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

### Substances

| Chemical name    | Common name and synonyms | CAS number | %   |
|------------------|--------------------------|------------|-----|
| Sulphamidic acid |                          | 5329-14-6  | 100 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

|  |  |
|--|--|
| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| Skin contact   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.   |
| Eye contact  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.  |
| Ingestion  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.  |
| Most important symptoms/effects, acute and delayed                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.  |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |

## 5. Fire-fighting measures

|   |   |
|---|---|
| Suitable extinguishing media                                  | Foam. Powder. Carbon dioxide (CO2).   |
| Unsuitable extinguishing media                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| Specific hazards arising from the chemical                    | During fire, gases hazardous to health may be formed.   |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions                          | Move containers from fire area if you can do so without risk.                                 |
| Specific methods  | Use standard firefighting procedures and consider the hazards of other involved materials.    |

## 6. Accidental release measures

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.   |
| Methods and materials for containment and cleaning up               | <p>Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| Environmental precautions   | Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|  |   |
|--|---|
| Precautions for safe handling                                | Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.   |
| Conditions for safe storage, including any incompatibilities | Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

|                              |   |
|------------------------------|---|
| Occupational exposure limits | No exposure limits noted for ingredient(s). |
|------------------------------|---|



|  |  |
|--|--|
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles) and a face shield.  |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.  |
| <b>Other</b>   | Wear appropriate chemical resistant clothing.  |
| <b>Respiratory protection</b>  | In case of insufficient ventilation, wear suitable respiratory equipment.  |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b>  | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  |

## 9. Physical and chemical properties

### Appearance

|   |  |
|---|--|
| <b>Physical state</b>                               | Solid.   |
| <b>Form</b>   | Solid.   |
| <b>Color</b>  | White  |
| <b>Odor</b>   | ODORLESS   |
| <b>Odor threshold</b>                               | Not available.   |
| <b>pH</b>   | 0.4 - 2 1N, pH=0.41; 0.75N, pH=0.5; 0.5N, pH=0.63; 0.25N, pH=0.87; 0.1N, pH=1.18; 0.05N, pH=1.41; 0.01N, pH=2.02 |
| <b>Melting point/freezing point</b>                 | 401 °F (205 °C)  |
| <b>Initial boiling point and boiling range</b>      | Not available.   |
| <b>Flash point</b>                                  | Not available.   |
| <b>Evaporation rate</b>                             | Not available.   |
| <b>Flammability (solid, gas)</b>                    | Not available.   |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.   |
| <b>Flammability limit - upper (%)</b>               | Not available.   |
| <b>Explosive limit - lower (%)</b>                  | Not available.   |
| <b>Explosive limit - upper (%)</b>                  | Not available.   |
| <b>Vapor pressure</b>                               | < 0.0000001 kPa at 25 °C   |
| <b>Vapor density</b>                                | Not available.   |
| <b>Relative density</b>                             | Not available.   |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Not available.   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.   |
| <b>Auto-ignition temperature</b>                    | Not available.   |
| <b>Decomposition temperature</b>                    | Not available.   |
| <b>Viscosity</b>                                    | Not available.   |
| <b>Other information</b>                            |  |
| <b>Density</b>                                      | 1.00 lbs/gal   |
| <b>Explosive properties</b>                         | Not explosive.   |

|                      |                |
|----------------------|----------------|
| Molecular formula    | H3-N-O3-S      |
| Molecular weight     | 97.1 g/mol     |
| Oxidizing properties | Not oxidizing. |
| Specific gravity     | 0.12           |

## 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | Reacts violently with strong alkaline substances. This product may react with reducing agents. May be corrosive to metals. |
| Chemical stability                 | Material is stable under normal conditions.  |
| Possibility of hazardous reactions | Hazardous polymerization does not occur.   |
| Conditions to avoid                | Contact with incompatible materials. Do not mix with other chemicals.  |
| Incompatible materials             | Bases. Strong oxidizing agents. Reducing agents. Metals.   |
| Hazardous decomposition products   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|              |   |
|--------------|---|
| Inhalation   | May cause irritation to the respiratory system. |
| Skin contact | Causes severe skin burns.                       |
| Eye contact  | Causes serious eye damage.                      |
| Ingestion    | Causes digestive tract burns.                   |

**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

### Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | Not available.                           |
| Skin corrosion/irritation         | Causes severe skin burns and eye damage. |
| Serious eye damage/eye irritation | Causes serious eye damage.               |

### Respiratory or skin sensitization

|                           |   |
|---------------------------|---|
| Respiratory sensitization | Not a respiratory sensitizer.                             |
| Skin sensitization        | This product is not expected to cause skin sensitization. |

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

|  |  |
|--|--|
| Reproductive toxicity                              | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure   | Not classified.  |
| Specific target organ toxicity - repeated exposure | Not classified.  |
| Aspiration hazard                                  | Not an aspiration hazard.  |

## 12. Ecological information

**Ecotoxicity** Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

| Product                          | Species | Test Results   |
|----------------------------------|---------|--|
| Sulphamidic acid (CAS 5329-14-6) |         |  |
| <b>Aquatic</b>                   |         |  |
| Fish                             | LC50    | Fathead minnow (Pimephales promelas) 14.2 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

### 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel]<br>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

### 14. Transport information

#### DOT

|   |   |
|---|---|
| UN number   | UN2967  |
| UN proper shipping name   | SULFAMIC ACID   |
| Transport hazard class(es)                                      |   |
| Class   | 8   |
| Subsidiary risk   | -   |
| Packing group   | III   |
| Special precautions for user                                    | Read safety instructions, SDS and emergency procedures before handling. |
| ERG number  | 154   |
| DOT information on packaging may be different from that listed. |   |

#### IATA

|                              |   |
|------------------------------|---|
| UN number                    | 2967  |
| UN proper shipping name      | SULFAMIC ACID   |
| Transport hazard class(es)   |   |
| Class                        | 8   |
| Subsidiary risk              | -   |
| Packing group                | III   |
| Environmental hazards        | No.   |
| ERG Code                     | 154   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

#### DOT







## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

|                          |                        |
|--------------------------|------------------------|
| <b>Hazard categories</b> | Immediate Hazard - Yes |
|                          | Delayed Hazard - No    |
|                          | Fire Hazard - No       |
|                          | Pressure Hazard - No   |
|                          | Reactivity Hazard - No |

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

|   |                        |
|---|------------------------|
| <b>Food and Drug Administration (FDA)</b> | Total food additive    |
|   | Indirect food additive |
|   | GRAS food additive     |

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Sulphamidic acid (CAS 5329-14-6)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.