SAFETY DATA SHEET: SULFAMIC ACID

1. IDENTIFICATION

Product Name: SULFAMIC ACID
Synonyms: Amidosulfonic acid; Sulfamidic acid; Sulphamic acid
Formula and Formula Weight: NH2SO3H 97.09
Integra numbers beginning with: S915.10; S915.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Skin Corrosion/Irritation: 1A Causes severe skin burns and eye damage. Eye Damage/Irritation: 1 Causes serious eye damage.
Signal Word: Danger

Precautionary Statements
Prevention: Do not breathe dusts or mists. 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. Specific treatment (see first aid section on this label) Wash contaminated clothing before reuse.
Storage: Store locked up.
Disposal: Dispose of contents, container in accordance with all governmental regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

Sulfamic acid

Synonyms: Amidosulfonic acid; Sulfamidic acid; Sulphamic acid
CAS #: 05329-14-6
% Weight: 100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.
Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.
Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention.
Ingestion: Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes: Symptoms and effects include skin and eye burns; nausea, vomiting, gastrointestinal irritation, burns to the mouth and throat; respiratory tract irritation.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Material is not flammable. Use extinguishing media suitable to surrounding materials.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Fire conditions may liberate toxic and noxious fumes.
Hazardous combustion products: Ammonia, oxides of sulfur, sodium and nitrogen.
6. ACCIDENTAL RELEASE MEASURES
Spill Procedures: Prevent spread of spill. Absorb with sand or inert material. Sweep or scoop into a dry disposal container. Avoid creating dusts. Wear protective equipment.

7. HANDLING AND STORAGE
Incompatible Materials: Incompatible with strong bases and strong oxidizers. Metal oxides, chemically active metals, carbonates, sulfides, cyanides, chlorine.
Storage and Handling: Store locked up in a cool, dry, well-ventilated corrosive materials storage area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Minimize exposure to air and light.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
OSHA & ACGIH Exposure Limits:
Sulfamic Acid None identified
Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.
Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES
Apearance: White crystalline solid
Odor: Odorless
Odor Threshold: Not available
pH: 1.18 (for a 1% solution)
Melting/Freezing Point: 205 °C
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Not Flammable
Flammable or Explosive
  Limits (% by volume in air)
    Lower: Not available
    Upper: Not available
Vapor Pressure: Not available
Vapor Density: 3.3
Relative Density: 2.1 g/cc
Solubility: Soluble in water
Partition Coefficient: n-octanol/water Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: 209
Viscosity: Not available

10. STABILITY AND REACTIVITY
Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Excessive heat.
Incompatibles: Incompatible with strong bases and strong oxidizers. Metal oxides, chemically active metals, carbonates, sulfides, cyanides, chlorine.
Decomposition Products: Ammonia, oxides of sulfur, sodium and nitrogen.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation: Harmful if inhaled. Irritating to the upper respiratory tract and mucous membranes.
Skin Contact: Contact may cause severe irritation or burns.
Eye Contact: May irritate or burn the eyes.
Ingestion: Harmful if swallowed. Ingestion may cause nausea, vomiting and gastrointestinal irritation and burns to the mouth and throat.
Chronic Effects: None identified
Target Organs: Eyes, skin, mucous membranes.
Additional Effects: May aggravate pre-existing damaged skin.
Reproductive Effects: None identified
Carcinogenicity: None identified
12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data:
Sulfamic Acid No information available

Terrestrial Toxicity Data:
Sulfamic Acid No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

UN Number: UN2967
Proper Shipping Name: Sulfamic acid
Packing Group: III
Hazard Class: 8
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION

Sulfamic Acid is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26523 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

The information presented above is offered for informational purposes only. This SDS, and the associated product, is intended for use only by technically qualified persons, and at their own discretion and risk. Since conditions and manner of use are outside the control of Integra Chemical Company, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

***** END OF SDS *****