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Section 1: Product & Company Information

Product Identifier: Sulfamic Acid 10-25%

Other Means of Identification

Product Number: 120050

Recommended Use and Restrictions on Use

Recommended Use: De-Scaling Restrictions on Use: No Data Available.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: CORECHEM Inc.

Address: 4320 Greenway Drive

Knoxville, TN 37918 USA

Information Telephone Number: 1-865-524-4239 Fax Number: 1-865-524-3375

Website: www.corecheminc.com
Contact Person: Regulatory Manager

E-mail: regulatory@corecheminc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

Section 2: Hazards Identification

GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Physical Hazard(s)

Corrosive to Metals - 1

Health Hazard(s)

Corrosion/Irritation, Skin - 2 (Corrosion)Damage/Irritation, Eye - 2A

Environmental Hazard(s)

Not classified.

Label Elements Signal Word WARNING

Hazard Symbol(s)





Hazard Statement(s)

H290: May be corrosive to metals. H315: Causes skin Irritation. H319: Causes serious eye Irritation.

Precautionary Statements

General

Not applicable.

Prevention

P234: Keep only in original container.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313: If skin irritation occurs: Get medical advice/attention.



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P337 + P313: If eye irritation persists: Get medical advice/attention. P390: Absorb spillage to prevent material damage.

Storage

Not applicable.

Disposal

Not applicable.

Hazard(s) not otherwise classified (HNOC)

None known.

Section 3: Composition/Information on Ingredients

Substance

Chemical Identity ²	Common Name/Synonym(s)	CAS # ³	Weight %	Impurity or Stabilizing Additive
Sulfamic Acid	-	5329-14-6	10 – 25%	No

- 1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- 2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- 3. "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation

Move to fresh air. Get medical attention if symptoms persist. Supply fresh air.

Skin Contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. 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

Rinse mouth thoroughly. Do NOT induce vomiting. Call a poison control center or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed

Symptoms

Gastric or intestinal disorders, Cramp, Coughing.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Treat symptomatically. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

General Fire Hazards

In case of fire and/or explosion do not breathe fumes.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

The product is not flammable. Extinguishing agent to suit environment. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable Extinguishing Media

No data available.

Specific Hazards Arising from the Chemical

In case of fire, the following can be released: Nitrogen oxides (NOx) & Sulphur oxides (SOx).

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures



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Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Avoid contact with skin and eyes.

Methods and Materials for Containment and Clean-Up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Wash off residuals with water. Ensure adequate ventilation.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Dilute with plenty of water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 7: Handling and Storage

Precautions for Safe Handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Wear personal protective equipment.

Conditions for Safe Storage, including any Incompatibilities

Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Provide acid-resistant floor. Store at room temperature (15-25 °C).

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Occupational Exposure Emilio				
Chemical Identity	Туре	Value	Source	
Sulfamic Acid	TWA	1 mg/m3	US. ACGIH Threshold Limit Values	
Sulfamic Acid	TWA	1mg/m3	US OSHA Table Z-1	

Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment (PPE)

General Information

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.

Eye/Face Protection

Wear safety glasses with side shields.

Skin Protection

Hand Protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory Protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information

Hygiene Measures

When using, do not eat, drink or smoke. 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. Discard contaminated footwear that cannot



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be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:

Physical State: Liquid
Color: Clear colorless

Odor: Faint Odor

Odor Threshold: No data available.

pH: 0.0

Melting Point/Freezing Point: No data available. Initial Boiling Point and Boiling 218 °F (102 °C)

Range:

Flash Point:

Evaporation Rate (butyl acetate=1):

Flammability (solid, gas):

Upper/Lower Limit on Flammability or Explosive Limits

Flammability Limit – Upper:
Flammability Limit – Lower:

Not applicable.

Not applicable.

Flammability Limit – Opper:

Flammability Limit – Lower:

Explosive Limit – Upper:

Explosive Limit – Upper:

Not applicable.

100 applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

100 applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Solubility(ies):

Solubility in water: Complete
Solubility (other): No data available.

Partition coefficient (n- No data available.

octanol/water):

Auto-Ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: (kinematic) 1 mm²/s

Other Information:

Molecular Weight: No data available. Formula: No data available.

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

Slowly Hydrolyzes to Form Ammonium Bisulfate.

Possibility of Hazardous Reactions

Reacts with alkali and metals.

Conditions to Avoid

Contact with incompatible materials.

Incompatible Materials

No data available.

Hazardous Decomposition Products

Ammonia and oxides of Sulfur, Nitrogen, and Carbon

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: Not Applicable.
Inhalation: Not Applicable.
Skin Contact: Causes Skin burns.
Eye Contact: Causes Eye damage.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral



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LD50: (Rat) 3,160 mg/kg

Dermal

No data available.

Inhalation

No data available.

Repeated Dose Toxicity

No data available.

Skin Corrosion/Irritation

Causes skin burns.

Serious Eye Damage/Eye Irritation

Causes eye damage.

Respiratory/Skin Sensitization

Not a skin sensitizer.

Carcinogenicity

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Germ Cell Mutagenicity

In Vitro

No mutagenic components identified.

In Vivo

No mutagenic components identified.

Reproductive Toxicity

None known.

Specific Target Organ Toxicity - Single Exposure

None known.

Specific Target Organ Toxicity - Repeated Exposure

None known.

Aspiration Hazard

Not classified.

Other Effects

None known.

Section 12: Ecological Information

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

Sulfamic Acid: LC50 (Fathead minnow (Pimephales promelas): 70.3 mg/l - 96h

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and Degradability Biodegradation



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There are no data on the degradability of this product.

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Partition Coefficient n-octanol / water (log Kow)

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

Section 13: Disposal Considerations

Disposal Instructions

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

Contaminated Packaging

Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Packaging that may not be cleansed are to be disposed of in the same manner as the product.

Recommended Cleansing Agents: Water, if necessary together with cleansing agents.

Section 14: Transportation Information

US Department of Transportation (DOT)

UN Number: UN2976

UN Proper Shipping Name: Corrosive liquids, n.o.s.

Technical Name: (contains sulfamic acid)

Hazard Class: 8

Subsidiary Hazard Risk: -

Packing Group: III

DOT Label/Placard Exemptions: Not determined

Special Provisions: IB8, IP3, T1, TP33

Packaging Exceptions: 49CFR 173.154 Packaging Non-Bulk: 49CFR 173.213

Packaging Bulk: 49CFR 173.240

Reportable Quantity (RQ): -

Marine Pollutant: No

Poison Inhalation Hazard: No

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that

persons transporting the product know what to do in the event of an accident or spillage.

Emergency Response Guidebook (ERG) #: 154

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Section 15: Regulatory Information

US Federal Regulations

Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

No chemical(s) in this material are subject to the reporting requirements of CERCLA.

Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

Emergency Planning and Community Right-To-Know Act (EPCRA)

EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification



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No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: No Sudden Release of Pressure: No

Reactive: No

Acute (Immediate) Health Hazard: Yes Chronic (Delayed) Health Hazard: No

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

Section 16: Other Information

Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 2

Chronic Health Hazard: /

Flammability: 0

Physical Hazard: 0

(Hazard Rating: 0 - Minimal / 1 - Slight / 2 - Moderate / 3 - Serious / 4 - Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

Special: N/A

(Hazard Rating: 0 - Minimal / 1 - Slight / 2 - Moderate / 3 - Serious / 4 - Severe)

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Key to Abbreviations and Acronyms

mg - milligram

ml – milliliter

ATE - Acute Toxicity Estimate ACGIH - American Conference of Industrial Hygienists BCF - Bioconcentration Factor AIHA - American Industrial Hygiene Association

EC50 - Effective concentration, 50% **BEI - Biological Exposure Indices** IDHL - Immediately Dangerous to Life and Health CAS - Chemical Abstracts Service

Kg – Kilogram DOT – US Department of Transportation I - Liter EPA - US Environmental Protection Agency

lb - Pound GHS - Globally Harmonized System of Classification and Labelling of Chemicals

LC50 - Lethal Concentration, 50% IARC - International Agency for Research on Cancer IATA - International Air Transport Association

LD50 - Lethal Dose, 50% IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

N/A - Not Applicable NIOSH – National Institute for Occupational Safety and Health

N/D - Not Determined NTP - National Toxicology Program

PEL – Permissible Exposure Limit OSHA - US Occupational Health and Safety Administration REL – Recommended Exposure Limit SARA - US EPA Superfund Amendments and Reauthorization Act

TSCA - US EPA Toxic Substances Control Act STEL – Short-term Exposure Limit

TWA - Time weighted average **UN - United Nations**

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

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