

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 01.10.2015**Sulfamic Acid, ACS Grade****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Sulfamic Acid, ACS Grade**Manufacturer/Supplier Article number:** DU409878**Recommended uses of the product and restrictions on use:** Sulfamic Acid,ACS**Manufacturer Details:**

AquaPhoenix Scientific
860 Gitts Run Road,
Hanover, PA 17331
(717) 632-1291

Supplier Details:

Dubois Chemicals Inc.
3630 East Kemper Rd, Cincinnati, OH 45241
(800) 438-2647

Emergency telephone number:

Emergency Phone No. (800) 255-3924

SECTION 2: Hazards identification**Classification of the substance or mixture:****Irritant**

Skin irritation, category 2
Eye irritation, category 2A

**Environmentally Damaging**

Acute hazards to the aquatic environment, category 3
Chronic hazards to the aquatic environment, category 3

Skin irrit. 2.

Eye irrit. 2A.

Aquatic AcTox. 3.

Aquatic ChrTox. 3.

Signal word: Warning**Hazard statements:**

Causes skin irritation.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statements:

Wash thoroughly after handling.

Avoid release to the environment.

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

IF ON SKIN: Wash with soap and water.

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

Continue rinsing.

Specific treatment (see ... on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists get medical advice/attention.

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Take off contaminated clothing and wash before reuse.
Dispose of contents/container.

Other Non-GHS Classification: None**SECTION 3: Composition/information on ingredients****Ingredients:**

Ingredients:		
CAS 5329-14-6	Sulfamic acid	>90 %
Percentages are by weight		

SECTION 4: First aid measures**Description of first aid measures****After inhalation:**

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Consult a physician.

After skin contact:

Wash hands and exposed skin with soap and plenty of water. Consult a physician.

After eye contact:

Rinse or flush exposed eye gently using water for 15-20 minutes. Consult a physician.

After swallowing:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Shortness of breath. Nausea.

Indication of any immediate medical attention and special treatment needed:

Provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing agents:**

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing agents: None**Special hazards arising from the substance or mixture:**

Nitrogen oxides. Sulphur oxides.

Advice for firefighters:**Protective equipment:**

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Additional information (precautions):

Avoid generating dust. Avoid breathing vapors, dust, mist, or gas. Further processing of solid materials may result in the formation of combustible dusts.

SECTION 6: Accidental release measures

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Ensure adequate ventilation. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area.

Environmental precautions:

Prevent from reaching drains, sewer, or waterway. Prevent further leakage or spillage. Should not be released into environment.

Methods and material for containment and cleaning up:

Sweep up and containerize for disposal. Avoid generating dust. Always obey local regulations. Sweep up and shovel. Keep in suitable closed containers for disposal. Follow proper disposal methods. Refer to Section 13.

Reference to other sections: None

SECTION 7: Handling and storage**Precautions for safe handling:**

Avoid contact with skin, eyes and clothing. Avoid dispersal of dust in the air. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Do not clear dust on surfaces with compressed air.

Conditions for safe storage, including any incompatibilities:

Store product and empty container away from heat and sources of ignition. Keep container tightly closed in a cool, dry, and well-ventilated area. Store in inert atmosphere.

SECTION 8: Exposure controls/personal protection**Control parameters:**

5329-14-6, Sulfamic Acid., Contains no substances with occupational exposure limit values.

Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Normal ventilation is adequate. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wear protective clothing.

Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles.

General hygienic measures:

Perform routine housekeeping to prevent dust generation. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

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Appearance (physical state, color):	White solid	Explosion limit lower: Explosion limit upper:	Not available Not available
Odor:	Odorless	Vapor pressure at 20°C:	0.008 hPa (0.006 mmHg) at 20°C; 0.025 hPa (0.019 mmHg) at 100°C
Odor threshold:	Not available	Vapor density:	Not available
pH-value:	1.5 at 10 g/l at 20°C	Relative density:	2.151 g/cm ³ at 25°C
Melting/Freezing point:	215 - 225°C	Solubilities:	Soluble in water: 213 g/l at 20°C
Boiling point/Boiling range:	Not available	Partition coefficient (n-octanol/water):	Not available
Flash point (closed cup):	Not available	Auto/Self-ignition temperature:	Not available
Evaporation rate:	Not available	Decomposition temperature:	209°C
Flammability (solid, gaseous):	Not available	Viscosity:	a. Kinematic: Not available b. Dynamic: Not available
Density at 20°C:	Not available		

SECTION 10: Stability and reactivity**Reactivity:**

None under normal processing.

Chemical stability:

Stable under normal conditions.

Possible hazardous reactions: None**Conditions to avoid:**

Incompatible materials.

Incompatible materials:

Strong oxidizing agents. Strong bases.

Hazardous decomposition products: None**SECTION 11: Toxicological information****Acute Toxicity:** No additional information.**Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

Skin - Human Result: Mild skin irritation 5329-14-6.

Serious eye damage/irritation:

Eyes - rabbit Result: Moderate eye irritation 5329-14-6.

Respiratory or skin sensitization: No additional information.**Carcinogenicity:** No additional information.**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:**

No additional information.

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Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 70.3 mg/l - 96 h (OECD Test Guideline 203), 5329-14-6.

Persistence and degradability: No additional information.

Bioaccumulative potential: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

SECTION 13: Disposal considerations**Waste disposal recommendations:**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information**US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA 2967

Limited Quantity Exception: None

Bulk:

RQ (if applicable): None

Proper shipping Name: Sulphamic acid.

Hazard Class: 8

Packing Group: III.

Marine Pollutant (if applicable): No additional information.

Comments: None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Sulphamic acid.

Hazard Class: 8

Packing Group: III.

Marine Pollutant (if applicable): No additional information.

Comments: None

**SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

RCRA (hazardous waste code):

None of the ingredients are listed.

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All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

Proposition 65 (California):**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada**Canadian Domestic Substances List (DSL) :**

All ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance within GHS guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-0-0**HMIS:** 2-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None