

Offer Sheet

Product	Sulfamic Acid
Quantity	954 bags x 44 lbs.
Net weight	42,000 lbs.
Condition	Off spec, hardened
Availability	One time
Location	Toledo, OH 43007
Date	2/3/26
COA & SDS	Attached below

Material requires grinding



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Sulfamic acid (H_3NSO_3) is a strong, non-volatile acid widely used in **industrial cleaning, water treatment, metal finishing, paper, textiles, and chemical manufacturing**. Commercially, it's valued for being **powerful on scale and deposits** while safer and easier to handle than hydrochloric or sulfuric acid in many applications. Below is a practical, market-focused breakdown.

1. Industrial Descaling & Cleaning (largest commercial use)

Primary function:

Removes **limescale, rust, cement residue, and mineral buildup**

Common applications:

- Heat exchangers & boilers
- Cooling towers
- Evaporators
- Pipes and condensers
- Construction cleanup (cement/mortar haze)

Why buyers prefer it:

- Strong on calcium carbonate & oxides
- Low fumes
- Slower corrosion rate on metals vs HCl

Major buyers:

Industrial maintenance companies, water treatment service firms, cleaning chemical formulators

2. Water & Wastewater Treatment

Uses include:

- ✓ Descaling of equipment and membranes
- ✓ pH adjustment in specific processes
- ✓ Cleaning of RO systems and heat transfer surfaces

Often blended into **proprietary cleaning formulations** used in plants and utilities.

Buyers:

Municipal plants, industrial pretreatment operators, specialty water treatment chemical producers

3. Metal Finishing & Surface Treatment

Used for:

- Pickling and rust removal on steel and iron
- Scale removal prior to plating or coating
- Brightening metal surfaces

Benefits:

- Uniform action
- Less aggressive base metal attack than mineral acids
- Produces soluble salts (easy rinsing)

Buyers:

Metal fabricators, plating shops, steel processors

4. Pulp & Paper Industry

Applications:

- Cleaning paper machine components
- Removing mineral scale from rollers and pipes
- Bleaching process aid (in some formulations)

Buyers:

Paper mills, chemical service providers to mills

5. Textile & Leather Processing

Used for:

- Dye bath pH control
- Removing excess alkali after bleaching
- Cleaning equipment fouling

Buyers:

Textile mills, dye houses, leather processors

6. Chemical Manufacturing (intermediate & reagent)

Used to make:

- Sulfamate salts (e.g., ammonium sulfamate, metal sulfamates)
- Specialty catalysts
- Flame retardant additives (some formulations)
- Electroplating bath chemicals

Buyers:

Specialty chemical manufacturers, plating chemical formulators

7. Construction & Restoration

- Masonry cleaning
- Removing concrete residues
- Stone and tile descaling

Often sold in **powder form for onsite mixing**.

Certificate of Analysis

Product Name: Sulphamic Acid

Customer PO#:

Customer Part#, if applicable: February 13, 2022

Lot Number:

Production Date:

<u>Property</u>	<u>Unit</u>	<u>Specification</u>	<u>Result</u>
Purity	%	99.0 Min	99.53
Moisture/LOD	%	1.5 Max	0.34
Iron as Fe	ppm	20 max	16
Physical Appearance		White Crystalline Powder	White Crystalline Powder

Shelf-Life: The shelf-life of this product is 2 Years provided that the product has been stored according to the SDS. Retesting of the material is recommended after 2 Years.

The information contained herein is based on information believed to be reliable. CJ Chemicals makes no warranties, express or implied, and assumes no liability with any use of this information.

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and the company/undertaking

Revision Date: 09/12/2021
Print Date: 11/27/2021

1.1 Production identifiers

Product name : SULFAMIC ACID
Brand :
CAS-No. : 5329-14-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, synthesis of substances

Telephone : : : +

1.4 Emergency Telephone

Emergency Phone # :
-

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Short-term (acute) aquatic hazard (Category 3), H402
Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
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.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Amidosulfonic acid

Molecular weight : 97.09 g/mol

CAS-No. : 5329-14-6

EC-No. : 226-218-8

Index-No. : 016-026-00-0

Component	Classification	Concentration
Sulphamic acid	Skin Irrit. 2; Eye Irrit. 2A; Aquatic Acute 3; Aquatic Chronic 3; H315, H319, H402, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

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

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x)

Sulfur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. **Advice on safe handling**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

Storage class

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|---|--------------------------------|
| a) Appearance | Form: solid
Color: white |
| b) Odor | No data available |
| c) Odor Threshold | No data available |
| d) pH | 1.5 at 10 g/l at 20 °C (68 °F) |
| e) Melting point/freezing point | 205 °C (401 °F) |
| f) Initial boiling point and boiling range | No data available |
| g) Flash point | ()No data available |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapor pressure | 0.008 hPa at 20 °C (68 °F) |

	0.025 hPa at 100 °C(212 °F)
l) Vapor density	No data available
m) Density	2.151 g/cm ³ at 25 °C (77 °F)
Relative density	No data available
n) Water solubility	213 g/l at 20 °C (68 °F)470 g/l at 80 °C (176 °F)
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	209 °C (408 °F) -
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - female - 2,140 mg/kg

Remarks: (ECHA)

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit

Result: Severe skin irritation - 24 h

Remarks: (RTECS)

(Regulation (EC) No 1272/2008, Annex VI)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe irritations

(OECD Test Guideline 405)

(Regulation (EC) No 1272/2008, Annex VI)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Mutagenicity (mammal cell test): micronucleus.

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

Test Type: Micronucleus test

Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

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

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

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male - Oral - 3 Months - NOAEL (No observed adverse effect level) - 929 mg/kg

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Symptoms and signs of poisoning are:, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Inhalation may provoke the following symptoms:, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, Aspiration or inhalation may cause chemical pneumonitis.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 70.3 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 71.6 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 48 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 200 mg/l - 3 h (OECD Test Guideline 209) EC10 - Pseudomonas putida - >= 1,000 mg/l - 16 h Remarks: (IUCLID)

12.2 Persistence and degradability

Biodegradability Result: - Not readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2967 Class: 8 Packing group: III

Proper shipping name: Sulfamic acid

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 2967 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: SULPHAMIC ACID

IATA

UN number: 2967 Class: 8 Packing group: III

Proper shipping name: Sulphamic acid

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Sulphamic acid

CAS-No.
5329-14-6

Revision Date
2007-03-01

Sulphamic acid

CAS-No.
5329-14-6

Revision Date
2007-03-01

New Jersey Right To Know Components

Sulphamic acid

CAS-No.
5329-14-6

Revision Date
2007-03-01

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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