

Sulfamic acid**07401-1KG**

Version 1.1

Revision Date 12/13/2021

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Sulfamic acid

Number : 000000020896

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : powder

Color : white

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Skin irritation, Category 2
Eye irritation, Category 2A

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Warning

Hazard statements

: Causes skin irritation.
Causes serious eye irritation.

Precautionary statements

Prevention:
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

Carcinogenicity

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, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: NH₂SO₃H

Chemical nature

: Substance

Chemical name	CAS-No.	Concentration
Sulfamic acid	5329-14-6	100.00 %

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SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If breathed in, move person into fresh air. Consult a physician.
- Skin contact : After contact with skin, wash immediately with plenty of soap and water. Consult a physician if necessary.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Call a physician immediately.
- Ingestion : Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry powder
Water spray
- Specific hazards during firefighting : Fire may cause evolution of:
Sulphur oxides
Nitrogen oxides (NO_x)
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

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Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid dust formation.
Ensure adequate ventilation.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

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

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Do not store together with:
Oxidizing agents

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alkalines
Acids**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : powder

Color : white

Odor : odourless

Odor threshold : Note: No data available

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pH	: ca. 1.5 at 10.00 g/l, 20 °C
Melting point/range	: ca. 205 °C
Decomposition temperature	ca. 209 °C
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: ca. 0.008 hPa at 20 °C(68 °F) 0.025 hPa at 100 °C(212 °F)
Vapor density	: Note: No data available
Density	: ca. 2.1 g/cm ³ at 20 °C
Water solubility	: 470 g/l at 80 °C 181.4 g/l at 20 °C Method: 92/69/EEC, A.6
Ignition temperature	: Note: No data available

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Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: No decomposition if stored and applied as directed., Decomposes on heating.
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 97.09 g/mol
Bulk density	: 1,000 - 1,300 kg/m3

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat Keep away from direct sunlight. Corrodes metals in the presence of water or moisture.
Incompatible materials	: Oxidizing agents Reactions with light metals. Alkalis Chlorine
Hazardous decomposition products	: Sulphur oxides Nitrogen oxides (NOx)

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 3,160 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 402
Skin irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Eye irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Sensitisation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Aspiration toxicity	: No data available
Further information	: Note: Not mutagenic in Ames Test

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

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Toxicity to fish : static test
LC50: 70.3 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

: flow-through test
NOEC: ≥ 60 mg/l
Exposure time: 34 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates : semi-static test
EC50: 71.6 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

: semi-static test
EC50: 71.6 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae : static test
IC50: 48 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201

Toxicity to bacteria : EC10: $> 1,000$ mg/l
Exposure time: 16 h
Species: Pseudomonas putida
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : Note: Classification based on Annex VI of regulation 1272/2008/EC.
(Chronic toxicity)

Elimination information (persistence and degradability)

Biodegradability : Note: Not readily biodegradable.

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Further information on ecology

Additional ecological information : Do not flush into surface water or sanitary sewer system.
Not inherently biodegradable.
Neutralisation will reduce ecotoxic effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 2967
Proper shipping name : SULPHAMIC ACID
Class : 8
Packing group : III
Hazard Labels : 8

IATA UN/ID No. : UN 2967
Description of the goods : SULPHAMIC ACID
Class : 8
Packaging group : III
Hazard Labels : 8
Packing instruction (cargo aircraft) : 864
Packing instruction (passenger aircraft) : 860
Packing instruction (passenger aircraft) : Y845

IMDG UN/ID No. : UN 2967
Description of the goods : SULPHAMIC ACID
Class : 8
Packaging group : III
Hazard Labels : 8
EmS Number : F-A, S-B
Marine pollutant : no
IMDG Code segregation group 1 – ACIDS,

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SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AICC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National 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)

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reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : No SARA Hazards**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**New Jersey RTK** : Sulfamic acid 5329-14-6**SECTION 16. OTHER INFORMATION**

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group