

SAFETY DATA SHEET

Version 6.4 Revision Date 11/08/2021 Print Date 06/01/2022

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

1.1 Product identifiers

Product name : 5-Isoquinolinesulfonic acid

Product Number : 246123 Brand : Aldrich CAS-No. : 27655-40-9

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

. +1 314 771-576

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Corrosive to Metals (Category 1), H290 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

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

2.2 GHS Label elements, including precautionary statements

Pictogram

T

Signal word Danger

Hazard statement(s)

H290 May be corrosive to metals.



H314	Causes severe skin burns and eye damage.			
Precautionary statement(s)				
P234	Keep only in original container.			
P260	Do not breathe dusts or mists.			
P264	Wash skin thoroughly after handling.			
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.			
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.			
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.			
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.			
P305 + P351 + P338 +	IF IN EYES: Rinse cautiously with water for several minutes.			
P310	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.			
P363	Wash contaminated clothing before reuse.			
P390	Absorb spillage to prevent material damage.			
P405	Store locked up.			
P406	Store in corrosive resistant container with a resistant inner liner.			
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

Formula : $C_9H_7NO_3S$ Molecular weight : 209.22 g/molCAS-No. : 27655-40-9

Component	Classification	Classification Concentration		
isoquinoline-5-sulfonic acid				
•	Skin Corr. 1B; Eye Dam.	<= 100 %		
	1; H314, H318			

sulphuric acid					
	Met. Corr. 1; Skin Corr.	>= 1 - < 5 %			
	1A; Eye Dam. 1; H290,				
	H314, H318				
	Concentration limits:				
	>= 0.3 %: Met. Corr. 1,				
	H290; >= 15 %: Skin				
	Corr. 1A, H314; 5 - < 15				
	%: Skin Irrit. 2, H315; 5 -				
	< 15 %: Eye Irrit. 2,				
	H319;				

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

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

No metal containers.

Tightly closed. Dry.

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



Component	CAS-No.	Value	Control	Basis
			parameters	
sulphuric acid	7664-93-9	TWA	0.2 mg/m3	USA. ACGIH Threshold Limit
				Values (TLV)
		TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits
				for Air Contaminants -
				1910.1000
		TWA	1 mg/m3	USA. Occupational Exposure
				Limits (OSHA) - Table Z-1
				Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: solid a) Appearance

b) Odor No data available c) Odor Threshold No data available No data available d) pH

e) Melting Melting point/range: > 300 °C (> 572 °F) - lit. point/freezing point

Initial boiling point

f)

No data available and boiling range

g) Flash point No data available No data available h) Evaporation rate No data available Flammability (solid, i) gas)

Upper/lower j) flammability or explosive limits

No data available

k) Vapor pressure No data available Vapor density No data available No data available m) Density No data available Relative density No data available n) Water solubility

o) Partition coefficient: No data available n-octanol/water

p) Autoignition temperature

No data available

q) Decomposition temperature

No data available

r) Viscosity No data available Explosive properties No data available

Oxidizing properties none

Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

No data available

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

Acute toxicity estimate Oral - > 5,000 mg/kg

(Calculation method)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of

respiratory tract

Dermal: No data available

Skin corrosion/irritationNo data available

Serious eye damage/eye irritation

Causes serious eye damage. (isoquinoline-5-sulfonic acid)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (isoquinoline-5-sulfonic acid)

Quantitative data on the toxicity of this product are not available.

(isoquinoline-5-sulfonic acid)

Further data:

(isoquinoline-5-sulfonic acid)

Other dangerous properties can not be excluded.

(isoquinoline-5-sulfonic acid)

Handle in accordance with good industrial hygiene and safety practice.

(isoquinoline-5-sulfonic acid)

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

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 Endocrine disrupting properties

No data available

12.7 Other adverse effects

We have no quantitative data concerning the ecological effects of this product.

Further information on ecology

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.



SECTION 14: Transport information

DOT (US)

UN number: 2585 Class: 8 Packing group: III

Proper shipping name: Aryl sulfonic acids, solid

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 2585 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: ARYLSULPHONIC ACIDS, SOLID

IATA

UN number: 2585 Class: 8 Packing group: III

Proper shipping name: Arylsulphonic acids, solid

SECTION 15: Regulatory information

SARA 302 Components

sulphuric acid CAS-No. Revision Date 7664-93-9 2007-07-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III,

Section 313:

Sulphuric acid CAS-No. Revision Date 2007-07-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

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

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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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