

Sulfonic Acid

SECTION 1. IDENTIFICATION

Product Identifier	Sulfonic Acid
Other Means of Identification	None
Product Code(s)	SU4510
Product Family	Surfactant
Recommended Use	Industrial.
Restrictions on Use	None known.
Supplier Identifier	Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.	CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.	0959

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Acute toxicity (Oral) - Category 4; Skin corrosion - Category 1; Serious eye damage - Category 1

Label Elements



Signal Word:
Danger

Hazard Statement(s):

Harmful if swallowed.
Causes severe skin burns and eye damage.

Precautionary Statement(s):

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Product Identifier:	Sulfonic Acid - Ver. 1
Date of Preparation:	March 16, 2017
Date of Last Revision:	March 16, 2017

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Continue rinsing.

Call a POISON CENTRE or doctor.

Specific treatment is urgent (see on this label).

Storage:

Store in a well-ventilated place. Keep cool.

Store in a dry place. Store in a closed container.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Hazardous to the aquatic environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	90 - 100	Dodecylbenzenesulfonic Acid	
Sulfuric acid	7664-93-9	1 - 2	Hydrogen Sulfate	
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	1 - 1.5	Linear Alkylbenzene	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact

Immediately call a Poison Centre or doctor. Immediately rinse skin with lukewarm, gently flowing water for at least 30 minutes. Skin burns must be treated by a physician.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor. Specific treatment is required.

Ingestion

Immediately call a Poison Centre or doctor. Rinse mouth with water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

First-aid Comments

Some of the first-aid procedures recommended here require advanced first-aid training. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

If on skin: contact can cause pain, redness, burns, and blistering. Permanent scarring can result.

Immediate Medical Attention and Special Treatment

Special Instructions

General advice, consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Product Identifier: Sulfonic Acid - Ver. 1

Date of Preparation: March 16, 2017

Date of Last Revision: March 16, 2017

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour. Closed containers may rupture violently when heated releasing contents.

In a fire, the following hazardous materials may be generated: corrosive sulfur oxides.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Approach fire from upwind to avoid hazardous vapours or gases. Fight fire from a safe distance or a protected location. Knock down vapours or gases with water fog or fine water spray. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Dike and recover contaminated water for appropriate disposal.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: stop or reduce leak if safe to do so. Dike spilled product to prevent runoff. Use non-combustible absorbent materials such as vermiculite, earth or sand to contain spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Wear personal protective equipment to avoid direct contact with this chemical. Do not breathe in this product. Only use where there is adequate ventilation. Never add water to a corrosive. Always add corrosives slowly to COLD water. Prevent accidental contact with incompatible chemicals. General hygiene considerations: it is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in an area that is: well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA

Product Identifier: Sulfonic Acid - Ver. 1

Date of Preparation: March 16, 2017

Date of Last Revision: March 16, 2017

Sulfuric acid	0.2 mg/m3 A2		1 mg/m3			
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Benzenesulfonic acid, C10-16-alkyl derivs.:

Consult local authorities for provincial exposure limits. Consult local authorities for state exposure limits.

Benzene, mono-C10-13-alkyl derivs.:

Consult local authorities for provincial exposure limits. Consult local authorities for state exposure limits.

Sulfuric acid:

A2 = Suspected human carcinogen.

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Safety glasses with side shields are recommended to prevent eye contact. Use full face-shield and chemical safety goggles when there is potential for contact.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Dark amber viscous liquid.
Odour	Not available
Odour Threshold	Not available
pH	< 1.0
Melting Point/Freezing Point	-18 °C (0 °F) (melting); -18 °C (0 °F) (freezing)
Initial Boiling Point/Range	> 100 °C (212 °F)
Flash Point	> 93.9 °C (201.0 °F)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	< 1.06
Solubility	Not available in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Product Identifier: Sulfonic Acid - Ver. 1
Date of Preparation: March 16, 2017
Date of Last Revision: March 16, 2017

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Incompatible materials.

Incompatible Materials

Reducing agents (e.g. hydroquinone), strong bases (e.g. sodium hydroxide).

Hazardous Decomposition Products

Corrosive sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sulfuric acid	255 mg/m ³ (rat) (4-hour exposure)	2,140 mg/kg (rat)	Not available
Benzenesulfonic acid, C10-16-alkyl derivs.	Not available	775 mg/kg (rat)	2000 mg/kg (rabbit)
Benzene, mono-C10-13-alkyl derivs.	Not available	> 2000 mg/kg (rat)	Not available

Skin Corrosion/Irritation

Causes severe skin burns.

Serious Eye Damage/Irritation

Causes serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful May cause severe nose and throat irritation.

Ingestion

Harmful

Causes severe irritation or burns to the mouth, throat and stomach.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Sulfuric acid	Group 1	A2	Not Listed	Not Listed
Benzenesulfonic acid, C10-16-alkyl derivs.	Not Listed	Not designated	Not Listed	Not Listed
Benzene, mono-C10-13-alkyl	Not Listed	Not designated	Not Listed	Not Listed

Product Identifier: Sulfonic Acid - Ver. 1

Date of Preparation: March 16, 2017

Date of Last Revision: March 16, 2017

derivs.

IARC: Group 1 – Carcinogenic to humans.
ACGIH®: A2 – Suspected human carcinogen.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	UN2586	Arylsulfonic Acids, Liquid with not more than 5 percent free sulfuric acid	8	III
IATA (Air)	UN2586	Arylsulfonic Acids, Liquid with not more than 5 percent free sulfuric acid	8	III
IMO (Marine)	UN2586	Arylsulfonic Acids, Liquid with not more than 5 percent free sulfuric acid	8	III

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Benzenesulfonic acid, C10-16-alkyl derivs.:

Listed on the DSL.

Benzene, mono-C10-13-alkyl derivs.:

Listed on the NDSL.

Sulfuric acid:

Listed on the DSL.

USA

Product Identifier: Sulfonic Acid - Ver. 1

Date of Preparation: March 16, 2017

Date of Last Revision: March 16, 2017

Toxic Substances Control Act (TSCA) Section 8(b)

Benzenesulfonic acid, C10-16-alkyl derivs.:

Listed on the TSCA Inventory.

Benzene, mono-C10-13-alkyl derivs.:

Listed on the TSCA Inventory.

Sulfuric acid:

Listed on the TSCA.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 3	Flammability - 1	Instability - 1
SDS Prepared By	Alphachem Limited		
Phone No.	(905)-821-2995		
Date of Preparation	March 16, 2017		
Date of Last Revision	March 16, 2017		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).		
Disclaimer	This document is offered only as a guide in the safe handling of the above product, and has been prepared from the best information currently available. It is not intended to be all-inclusive and the conditions of use may involve other additional considerations. Since Alphachem Limited cannot anticipate or control the conditions under which the product may be used, it will not be liable for any claims, damages or losses which may result from the use or reliance on any information herein.		

Product Identifier: Sulfonic Acid - Ver. 1

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