

Safety Data Sheet

Sulfuric Acid Methanol Electropolish

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sulfuric Acid Methanol Electropolish

Synonyms/Generic Names: None

Product Number: 5729

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Specific Target Organ Toxicity (STOT): Single exposure

Signal Word: Danger

Pictograms:



GHS Classification:

Flammable liquid	Category 2
Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Skin corrosion	Category 1A
Serious eye damage	Category 1
Specific target organ toxicity-single exposure	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

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H225	Highly flammable liquid and vapor.		
H302+H332	Harmful if swallowed or if inhaled.		
H314	Causes severe skin burns and eye damage.		
H370	Causes damage to organs.		

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Precautionary Statements:

Toodationary Otator			
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.		
P233	Keep container tightly closed.		
P240	Ground/Bond container and receiving equipment.		
P241	Use explosion-proof electrical/ventilating/lighting/equipment.		
P242	Use only non-sparking tools.		
P243	Take precautionary measures against static discharge.		
P260	Do not breathe dust/fume/gas/mist/vapors/spray.		
P264	Wash hands thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P271	Use only outdoors or in a well-ventilated area.		
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	IF INHALED: Remove person to fresh air and keep comfortable for		
	breathing.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove		
	contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER/doctor/physician.		
P363	Wash contaminated clothing before reuse.		
P370+P378	In case of fire: Use appropriate media to extinguish.		
P403+P235	Store in a well-ventilated place. Keep cool.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local regulations.		

Potential Health Effects

Eyes	Causes severe eye burns.		
Inhalation	Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.		
Skin	May be harmful if absorbed through skin. Causes skin burns.		
Ingestion	Harmful if swallowed.		

NFPA Ratings

Health	3
Flammability	3
Reactivity	1
Specific hazard	Not Available

HMIS Ratings

Health	3
Fire	3
Reactivity	1

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Sulfuric Acid	20-30	7664-93-9	231-639-5	H ₂ SO ₄	98.08 g/mol
Methanol	70-80	67-56-1	200-659-6	CH ₄ O	32.04 g/mol

4. FIRST-AID MEASURES

Eyes	Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.		
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention immediately.		

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Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated			
	clothing and wash using soap. Get medical attention immediately.			
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If			
	conscious, wash out mouth with water. Get medical attention immediately.			

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool unopened containers with water.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for	clothing, including eye protection and boots.	
firefighters		
Specific hazards arising from	Emits toxic fumes (carbon oxides, sulfur oxides) under fire conditions.	
the chemical	(See also Stability and Reactivity section).	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to federal/national or local reporting requirements.
Methods and materials for	Neutralize spill. Absorb spill with noncombustible absorbent material,
containment and cleaning up	then place in a suitable container for disposal. Clean surfaces
	thoroughly with water to remove residual contamination. Dispose of all
	waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Sulfuric Acid	0.2 mg/m ³	TLV	ACGIH
	1 mg/m ³	PEL	OSHA
	1 mg/m ³ `	REL	NIOSH

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	15 mg/m ³	IDLH	OSHA
Methyl Alcohol	200 ppm	TLV	ACGIH
	262 mg/m ³		
	250 ppm	STEL	ACGIH
	328 mg/m ³		
	200 ppm	PEL	OSHA
	260 mg/m ³		
	200 ppm	REL	NIOSH
	260 mg/m ³		
	250 ppm	STEL	NIOSH
	325 mg/m ³		

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles with face shield if splashing likely to occur.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, flame retardant antistatic protective clothing. The type of
SKIII	protective equipment must be selected according to the concentration and amount of
	the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear liquid.
Odor	Not Available
Odor threshold	Not Available
pH	<1
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	14-16°C (57-61°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable liquid
Upper/lower flammability or explosive limit	Not Available
Vapor pressure	Not Available
Vapor density	Not Available
Specific gravity	1.0048
Solubility (ies)	Not Available
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat, flames, sparks. Extremes of temperature and direct sunlight.
Incompatible Materials	Acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents, acids, metals, acrylonitrile, halides.
Hazardous Decomposition Products	Carbon oxides, sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	LD50 Oral – rabbit – >5,000 mg/kg (calculated)
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral – rat – 3,999 mg/kg (calculated)

Carcinogenicity

IARC	1-Group 1: Carcinogenic to humans (Sulfuric acid in inorganic acid mist form).
ACGIH	A2: Suspected human carcinogen (Sulfuric acid in inorganic acid mist form).
NTP	No components 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 components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Burning, itching, redness, inflammation upon exposed tissue.
Eyes	Eye burns, watering eyes, redness.
Respiratory	Burning, choking, coughing, shortness of breath, disorientation, dizziness, fatigue, nausea.
Ingestion	Nausea, vomiting, diarrhea, burning, severe pain, may cause blindness or central nervous
	system depression.

Chronic Toxicity	Ingestion may cause blindness (methanol).
Teratogenicity	No
Mutagenicity	No
Embryotoxicity	No
Target Organ(s)	Single exposure- Causes damage to organs.
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

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13. DISPOSAL CONSIDERATIONS

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product or residue.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN2924, Flammable liquids, corrosive, n.o.s. (methanol and sulfuric acid), 3, (8), PG II
TDG	UN2924, FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (METHANOL AND SULFURIC ACID), 3, (8), PG II
IMDG	UN2924, FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (METHANOL AND SULFURIC ACID), 3, (8), PG II
Marine Pollutant	No
IATA/ICAO	UN2924, Flammable liquids, corrosive, n.o.s. (methanol and sulfuric acid), 3, (8), PG II

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active
	inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Listed: Methanol
Rhode Island: Hazardous Substance List	Listed: Sulfuric Acid, Methanol
Massachusetts: Toxic or Hazardous Substance List, Right to Know	Listed: Methanol
Pennsylvania: Hazardous Substance List	Listed: Sulfuric Acid, Methanol
New Jersey: Right to Know Hazardous Substance List	Listed: Sulfuric Acid, Methanol
SARA 302	Listed: Sulfuric Acid
SARA 304	Listed: Sulfuric Acid
SARA 311	Fire Hazard, Acute Health Hazard, Chronic Health
	Hazard
SARA 312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
SARA 313	Listed: Sulfuric Acid (aerosol forms only)
WHMIS Canada	Class B2: Flammable and combustible material – Flammable liquid.
	Class D1A: Poisonous and infectious material –
	Immediate and serious effects – Very toxic.
	Class D1B: Poisonous and infectious material –
	Immediate and serious effects – Toxic.
	Class D2A: Poisonous and infectious material –
	Other effects – Very toxic.

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Class D2B: Poisonous and infectious material –
Other effects – Toxic.
Class E: Corrosive material.

16. OTHER INFORMATION

Revision	Date
Original	08/15/2014
Revision 1	07/18/2017
Revision 2	07/21/2020
Revision 3	12/13/2021
Revision 4	01/10/2023
Revision 5	01/16/2025

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