

### SECTION 1: Identification

		Acid, Glacial, ACS Reagent ic acid; Ethylic acid; Glacial Acetic Acid; 84410-03, 84410-04	
Recommended Uses Uses Advised Against		General Laboratory Reagent/Chemical. Not intended for drug, food or household u	use.
Address Telephone	SPEX CertiPrep, LLC 203 Norcross Ave. Metuchen, NJ 08840 U 1.732.549.7144	SA	24-Hour Emergency Telephone CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887
Website	www.spex.com		

#### SECTION 2: Hazard(s) Identification

Skin corrosion/irritation (Category 1)

Serious eye damage/eye irritation (Category 1)

Flammable liquids (Category 3)

#### Hazards not otherwise classified or covered by GHS

None identified.

#### Signal Word

DANGER

#### **Hazard Statements**

Causes severe skin burns and serious eye damage. Flammable liquid and vapour.

#### **Precautionary Statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take action to prevent static discharges. Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Wear protective gloves and clothing and eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin/hair with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get medical help. In all cases of contact: Get emergency medical help immediately. In case of fire: Use dry chemical, foam or carbon dioxide (CO2) for extinction. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.



### SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Acetic Acid	64-19-7	200-580-7	100



SECTION 4: First-Aid Measur				
General Advice	Show this SDS to attending physician if medical treatment is needed.			
Skin Contact	Immediately wash affected area with soap and water while removing contaminated clothing. Seek medical attention if there is any evidence of skin damage or persistent irritation.			
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.			
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored, seek medical attention.			
Ingestion	Rinse mouth. Seek medical attention if feeling unwell.			
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.			
Treatment	Treat symptomatically.			
SECTION 5: Fire-Fighting Me	asures			
Extinguishing Media	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam).			
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.			
Actions for Firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.			
SECTION 6: Accidental Relea	ise Measures			
Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe			
Environmental Precautions	areas. Keep people away from and upwind of spill/leak.			
Containment and Clean Up	As with any chemical, avoid release to the environment for the responsible stewardship of our planet. Contain and absorb with inert absorbent material. Wear respiratory protection, gloves, eye protection and protective			
	clothing. Sweep up or vacuum up spillage and collect in suitable lidded container for disposal.			
Section 7: Handling and Stor				
Handling Storage	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear chemical resistant gloves, protective clothing and eye protection when handling this substance, as well as any other PPE recommended in any section of this SDS. Ground or bond containers. Use only non-sparking tools and explosion-proof equipment. Ensure adequate ventilation and absence of ignition sources.			
Storage	Keep containers tightly closed in a cool and well-ventilated place. Avoid storage near heat, ignition sources or open flame. Protect from physical damage. Store separately from incompatible materials. Store locked up.			
Section 8: Exposure Controls	s / Personal Protection			
Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.			
Exposure Limits	Acetic acid PEL-TWA 25 mg/m <sup>3</sup> US-OSHA			
Exposure Limits	Acetic acid REL-TWA 10 ppm US-NIOSH			
Exposure Limits	Acetic acid TLV-STEL 15 ppm US-ACGIH			
Exposure Limits	Acetic Acid REL-STEL 15 ppm US-NIOSH			
Exposure Limits	Acetic Acid TLV-TWA 10 ppm US-ACGIH			
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.			
Skin Protection	Wear chemical resistant gloves and protective clothing.			
Respiratory Protection	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.			
Section 9: Physical and Chen	nical Properties			

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Physical State	Liquid
Appearance/Color	Colorless
Odor	strong, vinegar, lachrymator
Odor Threshold	0.074 ppm
Melting/Freezing Point	16.64°C
Boiling Point/Range	Approximately 118°C
Flammability	Flammable
Flammable/Explosive Limits	4 - 19.9%
Flash Point	39°C
Auto-Ignition Temperature	463°C
Decomposition Temperature	Data not available
рН	<2
Viscosity	Data not available
Solubility (in water)	Miscible
Partition Coefficient (n-octanol Relative Density	l/water) -0.31 1.0496
Vapor Pressure	11.4 mmHg at 20°C
Vapor Density	2.1
Evaporation Rate	0.97 (butyl acetate = 1)
Particle Characteristics	Not applicable.
Section 10: Stability and Rea	activity
Reactivity	Based on available data, no reaction hazards have been identified.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials. Avoid breathing mist or vapors. Keep away from heat, sparks and open flame.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Thermal decomposition can produce carbon oxides.
Section 11: Toxicological Inf	ormation
Acute Toxicity - Oral	LD50 (rat) 3310 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit) 1060 mg/kg
Acute Toxicity - Inhalation	LC50 (mouse) 5620 mg/m³/1H
Skin Corrosion/Irritation	Causes severe skin burns.
Eye Damage/Irritation	This material can cause serious eye damage.
<b>Respiratory Sensitization</b>	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	None known.
STOT Repeated Exposure	None known.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.



Section 12: Ecological Information			
Toxicity Values	LC50 (Crangon septemspinosa) 158 mg/L/96H		
Persistence/Biodegradability	Data is not available for this substance that does not meet the criteria of ecotoxin.		
<b>Bioaccumlation Potential</b>	Not expected to bioaccumulate.		
Mobility in Soil	Data is not available for this substance that does not meet the criteria of ecotoxin.		
Other Adverse Effects	None known.		
Section 13: Disposal Considerations			

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information		
UN Number		UN2789
Proper Shipping Name, Hazard Class		ACETIC ACID, GLACIAL, 8 (3)
Packing Group		II
Marine Pollutant		Not classified as a marine pollutant.
Section 15: Regulatory Inforn	nation	
USA TSCA	CA On or in compliance with the inventory.	
USA SARA 302/304	ARA 302/304 Acetic acid, TPQ 4540 kg (10,000 lbs) RQ 2270 kg (5000 lbs)	
USA SARA 311/312 Acetic acid		d
USA SARA 313 (TRI) Does not apply.		apply.
Canada DSL/NDSL On or in compliance		compliance with DSL.
California Proposition 65	Proposition 65 This product contains no substances on the list.	
Section 16: Other Information		
Acronyms Revision Date	ACGIH ATE BCF CERCLA DOT DSL EHS EPA GHS IARC IDLH NTP OSHA PEL PNOR PPE ppb ppm RQ SARA TLV TPQ TRI TSCA TWA UN 05/13/21	American Conference of Governmental Industrial Hygienists (USA) Acute Toxicity Estimate (calculated toxicity value) Bioconcentration Factor Comprehensive Environmental Response, Compensation and Liability Act (USA) Department of Transportation (USA) Domestic Substances List (Canada) Extremely Hazardous Substance Environmental Protection Agency (United States) Globally Harmonized System International Agency for Research on Cancer Immediately Dangerous to Life and Health National Toxicology Program (USA) Occupational Safety and Health Administration (USA) Permissible Exposure Limit Particulates Not Otherwise Classified Personal Protective Equipment Parts per billion Parts per billion Parts per million Reportable Quantity Superfund Amendments and Reauthorization Act (USA) Threshold Limit Value Threshold Planning Quantity Toxic Release Inventory (USA) Toxic Substances Control Act (USA) Time Weighted Average United Nations

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: product safety department

Contact: SPEX CertiPrep, LLC. 1-732-549-7144