

Safety Data Sheet

SECTION 1: Identification

Product Name	Acetic Acid, Glacial, ACS Reagent
Product Code	C5100630
Other Identifiers	Ethanoic acid; Ethylic acid; Glacial Acetic Acid
Recommended Uses	General Laboratory Reagent/Chemical.
Uses Advised Against	Not intended for drug, food or household use.
Address	3825 Parrott Drive Charlotte, NC 28214 USA
Email	orders@reagents.com
Fax	1-888-843-4384
Telephone	1-800-732-8484
Website	www.reagents.com
24-Hour Emergency Telephone	
CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887	

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 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

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SECTION 4: First-Aid Measures

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 Measures

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 Release Measures

Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
Containment and Clean Up	Wear respiratory protection, gloves, eye protection and protective clothing. Contain spill. Neutralize with carbonate or bicarbonate using adequate ventilation to protect against carbon dioxide formation. Collect in suitable lidded container for disposal.

Section 7: Handling and Storage

Handling	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 / 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 ³ 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 Chemical 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
pH	< 2
Viscosity	Data not available
Solubility (in water)	Miscible
Partition Coefficient (n-octanol/water)	-0.31
Relative Density	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 Reactivity

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 Information

Acute Toxicity - Oral	LD50 (rat) 3310 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit) 1060 mg/kg
Acute Toxicity - Inhalation	LC50 (mouse) 5620 mg/m ³ /1H
Skin Corrosion/Irritation	Causes severe skin burns.
Eye Damage/Irritation	This material can cause serious eye damage.
Respiratory Sensitization	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.
Other Information	No additional information available.

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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.
Bioaccumulation Potential	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 Information

USA TSCA	On or in compliance with the inventory.
USA SARA 302/304	Acetic acid, TPQ 4540 kg (10,000 lbs) RQ 2270 kg (5000 lbs)
USA SARA 311/312	Acetic acid
USA SARA 313 (TRI)	Does not apply.
Canada DSL/NDSL	On or in compliance with DSL.
California Proposition 65	This product contains no substances on the list.

Section 16: Other Information

Acronyms	ACGIH	American Conference of Governmental Industrial Hygienists (USA)
	ATE	Acute Toxicity Estimate (calculated toxicity value)
	BCF	Bioconcentration Factor
	CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
	DOT	Department of Transportation (USA)
	DSL	Domestic Substances List (Canada)
	EHS	Extremely Hazardous Substance
	EPA	Environmental Protection Agency (United States)
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	IDLH	Immediately Dangerous to Life and Health
	NTP	National Toxicology Program (USA)
	OSHA	Occupational Safety and Health Administration (USA)
	PEL	Permissible Exposure Limit
	PNOR	Particulates Not Otherwise Classified
	PPE	Personal Protective Equipment
	ppb	Parts per billion
	ppm	Parts per million
	RQ	Reportable Quantity
	SARA	Superfund Amendments and Reauthorization Act (USA)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity
	TRI	Toxic Release Inventory (USA)
	TSCA	Toxic Substances Control Act (USA)
	TWA	Time Weighted Average
	UN	United Nations

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