

Classified According to OSHA Hazard Communication Standard (HCS)

### **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Acetic Acid, 4.00 Normal

Product Number: R0154000
Other Identifying Product Numbers: R0154000-1A

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

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

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statements:	Precautionary Statements:
Acute Toxicity - Inhalation	Category 4	H332	P261, P271, P304+P340, P312
Skin Corrosion / Irritation	Category 1	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310

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# **Safety Data Sheet**

## 2.2. GHS Label Elements

#### Pictograms:



Signal Word: Danger

#### **Hazard Statements:**

Hazard Number	Hazard Statement	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement	
P260	Do not breathe fumes, mist, vapors, or spray.	
P261	Avoid breathing fumes, mist, vapors, or spray.	
P264	Wash arms, hands and face thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves and eye 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.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338	8 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 or physician.	
P312	Call a POISON CENTER or physician if you feel unwell.	
P321	Specific treatment (Refer to SDS.).	
P363	Wash contaminated clothing before reuse.	
P405	Store locked up.	
P501	Dispose of contents in accordance with local, state, federal and international regulations.	

## 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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# **SECTION 3: Composition / Information on Ingredients**

### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	$H_2O$	18.01 g/mol 7732-18-5	76.59
Acetic Acid	CH₃COOH	60.05 g/mol 64-19-7	23.41

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

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

rinsing. Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and

irritation to eyes.

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

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause serious damage to the

skin. Effects may include redness, pain, skin burns.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician

immediately.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Danger! Corrosive liquid. May be fatal if swallowed. Causes severe burns to all areas of contact. Harmful if inhaled. Inhalation may cause lung and tooth damage. Immediately wash areas of contact with plenty of water for at least 15 minutes. If ingested, give large quantity of water. Do not induce vomiting. EYE CONTACT: Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes. SKIN CONTACT: May cause serious damage to the skin. Effects may include redness, pain, skin burns. CHRONIC EFFECTS / CARCINOGENICITY: Repeated exposures may cause erosion of exposed front teeth, darkening of skin and chronic inflammation of the nose, throat and bronchial tubes.

#### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Refer to SDS.).

# **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

Water spray, dry chemical, alcohol foam, carbon dioxide

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Combustible liquid. Combustion may produce irritants and toxic gases.

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### 5.3. Special Protective Equipment for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, Teflon, Viton, or Saranex barrier recommended.

#### **SECTION 6: Accidental Release Measures**

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

#### 6.2. Cleanup and Containment Methods and Materials

Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Use soda ash to neutralize spills. Control runoff and isolate discharged material for proper disposal.

# **SECTION 7: Handling and Storage**

### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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# **SECTION 8: Exposure Controls / Personal Protection**

#### **8.1 Control Parameters**

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Acetic Acid (64-19-7)	TLV-STEL	USA	"15 ppm STEL" As Acetic	ACGIH - Threshold Limit Values - Short
			acid [64-19-7]	Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	"10 ppm TWA" As Acetic	ACGIH - Threshold Limit Values - Time
			acid [64-19-7]	Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TWA	USA	"10 ppm TWA; 25 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Acetic acid	Weighted Averages (TWAs)
			[64-19-7]	
Acetic Acid (64-19-7)	TWA	USA	10 ppm TWA; 25 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA	Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-TWA	USA	10 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TLV-STEL	USA	15 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	"10 ppm TWA" As Acetic	ACGIH - Threshold Limit Values - Time
			acid [64-19-7]	Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TLV-STEL	USA	"15 ppm STEL" As Acetic	ACGIH - Threshold Limit Values - Short
			acid [64-19-7]	Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TWA	USA	"10 ppm TWA; 25 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Acetic acid	Weighted Averages (TWAs)
			[64-19-7]	
Acetic Acid (64-19-7)	TLV-TWA	USA	"10 ppm TWA" As Acetic	ACGIH - Threshold Limit Values - Time
			acid [64-19-7]	Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TWA	USA	"10 ppm TWA; 25 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Acetic acid	Weighted Averages (TWAs)
			[64-19-7]	
Acetic Acid (64-19-7)	TLV-STEL	USA	"15 ppm STEL" As Acetic	ACGIH - Threshold Limit Values - Short
			acid [64-19-7]	Term Exposure Limits (TLV-STEL)

#### 8.2. Exposure Controls

**Engineering Controls:** Use only outdoors or in a well-ventilated area. Work in fume hood.

**Respiratory Protection:** Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves. **Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

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#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge. Chemical resistant gloves. Safety glasses or goggles.

# **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Vinegar

Odor Threshold: Data not available.

pH:<1

Melting/Freezing Point: Approximately 0°C

Initial Boiling Point/Range: Approximately 100°C - 118

Flash Point: 39°C (Acetic Acid)

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.03

Solubility: Miscible

Partition Coefficient: Data not available.

**Auto-Ignition Temperature:** Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

## **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage. Acetic acid contracts slightly upon freezing which may cause the container to burst.

#### 10.2. Possibility of Hazardous Reactions

Data not available.

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### 10.3. Conditions to Avoid and Incompatible Materials

Strong bases, strong oxidizers, chromic acid, sodium peroxide, nitric acid, perchloric acid.

#### 10.4. Hazardous Decomposition Products

Will not occur.

### **SECTION 11: Toxicological Information**

### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Not applicable.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Harmful if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat (Acetic Acid): 3310 mg/kg; LD50, Dermal, Rabbit (Acetic Acid): 1.06 L/kg, details of toxic effects not reported other than lethal dose value.

#### **Skin Corrosion and Irritation:**

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Refer to SDS.). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Serious Eye Damage and Irritation:**

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### **Respiratory Sensitization:**

Not applicable.

#### Skin Sensitization:

Not applicable.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

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#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

## **SECTION 12: Ecological Information**

### 12.1. Ecotoxicity

Not applicable.

#### 12.2. Persistence and Degradability

Data not available.

#### 12.3. Bioaccumulative Potential

Data not available.

#### 12.4. Mobility in Soil

Data not available.

#### 12.5. Other Adverse Ecological Effects

Data not available.

## **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Data not available.

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## **SECTION 14: Transportation Information**

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Sizes: 1L

UN Number: UN2790

Proper Shipping Name: Acetic Acid Solution

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes: 1L

UN Number: UN2790

Proper Shipping Name: Acetic Acid Solution

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1L

UN Number: UN2790

Proper Shipping Name: ACETIC ACID SOLUTION

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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# **SECTION 15: Regulatory Information**

#### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

# 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.

### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Acetic Acid (CAS # 64-19-7): "5000 lb final RQ
Acetic Acid (CAS # 64-19-7): 2270 kg final RQ
Acetic Acid (CAS # 64-19-7): 2270 kg final RQ" As Acetic acid [64-19-7]
Acetic Acid (CAS # 64-19-7): 5000 lb final RQ

# 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI) Not listed.

#### 15.5. Massachusetts Right-to-Know Substance List

Acetic Acid (CAS # 64-19-7): "Present (including glacial)" As Acetic acid [64-19-7] Acetic Acid (CAS # 64-19-7): Present (including glacial)

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Acetic Acid (CAS # 64-19-7): "Environmental hazard
Acetic Acid (CAS # 64-19-7): "Environmental hazard (including water solutions)" As Acetic acid [64-19-7]
Acetic Acid (CAS # 64-19-7): Environmental hazard
Acetic Acid (CAS # 64-19-7): Environmental hazard (including water solutions)
Acetic Acid (CAS # 64-19-7): Environmental hazard (water solutions)
Acetic Acid (CAS # 64-19-7): Environmental hazard (water solutions)" As Acetic acid [64-19-7]
Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]
Water (CAS # 7732-18-5): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Acetic Acid (CAS # 64-19-7): "corrosive" As Acetic acid [64-19-7] Acetic Acid (CAS # 64-19-7): "sn 0004" As Acetic acid [64-19-7] Acetic Acid (CAS # 64-19-7): corrosive Acetic Acid (CAS # 64-19-7): sn 0004

#### 15.8. California Proposition 65

Not listed.

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#### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Acetic Acid (CAS # 64-19-7): "Present" As Acetic acid [64-19-7] (DSL)

Acetic Acid (CAS # 64-19-7): "Present" As Carboxylic acids, C1-5 [68937-68-8] (NDSL)

Acetic Acid (CAS # 64-19-7): Present (DSL)

Acetic Acid (CAS # 64-19-7): Present (NDSL)

Water (CAS # 7732-18-5): "Present" As Water [7732-18-5] (DSL)

Water (CAS # 7732-18-5): Present (DSL)

### 15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Acetic Acid (CAS # 64-19-7): "Present (ACTIVE)" As Acetic acid [64-19-7]

Acetic Acid (CAS # 64-19-7): Present (ACTIVE)

Water (CAS # 7732-18-5): "Present [XU] (ACTIVE)" As Water [7732-18-5]

Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

# 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Acetic Acid (CAS # 64-19-7): "200-580-7" As Acetic acid [64-19-7]

Acetic Acid (CAS # 64-19-7): 200-580-7

Acetic Acid (CAS # 64-19-7): 273-079-4

Water (CAS # 7732-18-5): "231-791-2" As Water [7732-18-5]

Water (CAS # 7732-18-5): 231-791-2

#### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

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

Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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. Immediately call a POISON CENTER or physician. Specific treatment (Refer to SDS.). Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

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#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

#### 16.3. National Fire Protection Association (NFPA) Rating

Health: 2
Flammability: 1
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2025-04-03

#### **DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

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