



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Acetic Acid Standard, 750 ppm CH<sub>3</sub>COOH in 10% (v/v) Ethanol

**Product Number** R0091750

**Other Identifying Product Numbers** R0091750-100A

#### 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** 412 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

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### SECTION 2: Hazard(s) Identification

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

| Hazard Class      | Category   | Hazard Statements | Precautionary Statements                                                           |
|-------------------|------------|-------------------|------------------------------------------------------------------------------------|
| Flammable Liquids | Category 3 | H226              | P210,P233,P240,P241,P242,P243,<br>P280,P303+P361+P353,P370+P378,<br>P403+P235,P501 |

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Warning**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

| Hazard Number | Hazard Statement           |
|---------------|----------------------------|
| H226          | Flammable liquid and vapor |

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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### Prevention

| Precautionary Number | Precautionary Statement                                                                        |
|----------------------|------------------------------------------------------------------------------------------------|
| P210                 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233                 | Keep container tightly closed.                                                                 |
| P240                 | Ground and bond container and receiving equipment.                                             |
| P241                 | Use explosion-proof equipment.                                                                 |
| P242                 | Use non-sparking tools.                                                                        |
| P243                 | Take action to prevent static discharge.                                                       |
| P280                 | Wear protective gloves and eye protection.                                                     |

### Response

| Precautionary Number | Precautionary Statement                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------|
| P303+P361+P353       | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P370+P378            | In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish.                              |

### Storage

| Precautionary Number | Precautionary Statement                      |
|----------------------|----------------------------------------------|
| P403+P235            | Store in a well-ventilated place. Keep cool. |

### Disposal

| Precautionary Number | Precautionary Statement                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P501                 | Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations. |

### 2.3. Hazards not Otherwise Classified

No other hazards identified.

### 2.4. Ingredients of Unknown Acute Toxicity

8.3 percent of this mixture consists of ingredient(s) of unknown acute dermal toxicity.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

| Chemical Name (IUPAC) | Common Name and Synonyms   | CAS Number | Weight% |
|-----------------------|----------------------------|------------|---------|
| water                 | Water                      | 7732-18-5  | 91.69   |
| ethanol               | Ethyl Alcohol              | 64-17-5    | 8.23    |
| acetic acid           | Acetic Acid; Ethanoic acid | 64-19-7    | < 0.1   |

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## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Results in drying and cracking which can lead to secondary infections and dermatitis.

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

Does not present any significant health hazards. May cause slight irritation to areas of contact. Wash areas of contact with water. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis.

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

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish. Water, dry chemical, foam, or carbon dioxide. Water spray may be used to keep fire-exposed containers cool.

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Flammable liquid and vapor Slight fire hazard when subject to high heat, containers may explode in fire.

### 5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

## SECTION 6: Accidental Release Measures

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

Ground and bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharge. Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Absorb with inert material (vermiculite, sand). Ventilate, if necessary, site of spillage well to evaporate remaining liquid and dispel vapor. Do not flush to sewer. Always comply with local, state, and federal regulations.

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### SECTION 7: Handling and Storage

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

Store in a well-ventilated place. Keep cool. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1. Exposure Limits

##### U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

| Chemical Name | CAS Number | Exposure Limit                           |
|---------------|------------|------------------------------------------|
| Ethyl Alcohol | 64-17-5    | 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA |
| Acetic Acid   | 64-19-7    | 10 ppm TWA; 25 mg/m <sup>3</sup> TWA     |

##### U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

##### U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

##### U.S. OSHA - Specifically Regulated Chemicals

No limits found.

##### ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

##### ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

| Chemical Name | CAS Number | Exposure Limit |
|---------------|------------|----------------|
| Ethyl Alcohol | 64-17-5    | 1000 ppm STEL  |
| Acetic Acid   | 64-19-7    | 15 ppm STEL    |

##### ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

| Chemical Name | CAS Number | Exposure Limit |
|---------------|------------|----------------|
| Acetic Acid   | 64-19-7    | 10 ppm TWA     |

#### 8.2. Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

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## 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

**Physical State:** liquid

**Color:** Colorless

**Odor:** Data not available.

**Odor Threshold:** Data not available.

**Melting/Freezing Point:** Approximately 0°C

**Boiling Point/Range:** Approximately 100°C

**Flammability:** Data not available.

**Flammability/Explosive Limits:** Data not available.

**Flash Point:** 47 °C (calculated)

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

**Decomposition Temperature:** Data not available.

**pH:** N/A

**Kinematic Viscosity:** Data not available.

**Solubility:** miscible

**Vapor Pressure:** Data not available.

**Evaporation Rate:** Data not available.

**Relative Density:** 1.0

**Relative Vapor Density:** Data not available.

**Particle Characteristics:** Data not available.

**Partition Coefficient n-octanol/water, log** Data not available.

NOTE: Flash point was calculated according to the method of Gmehling and Rasmussen (Ind. Eng. Chem. Fundament, 21, 186, (1982) ), as allowed by GHS Rev 7, section 2.6.4.2.3.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

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### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Strong oxidizing agents such as Nitrates, Perchlorates or Sulfuric Acid, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings.

### 10.4. Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure:

Not acutely toxic.

| Chemical Name | CAS Number | Toxicity                                      |
|---------------|------------|-----------------------------------------------|
| Ethyl Alcohol | 64-17-5    | Oral LD50 Rat 7060 mg/kg (Source: NLM_CIP)    |
| Acetic Acid   | 64-19-7    | Oral LD50 Rat 3530 mg/kg (Source: Canada_HSA) |

#### Acute Toxicity - Dermal Exposure:

No information found.

#### Acute Toxicity - Inhalation Exposure:

Inhalation acute toxicity estimate (ATE, vapor): 10625.0000 mg/L, 4 h(calculated)

| Chemical Name | CAS Number | Toxicity                                                                                                                                   |
|---------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | Inhalation LC50 Rat 116.9 mg/L 4 h (males, vapor, Source: ECHA_API); Inhalation LC50 Rat 133.8 mg/L 4 h (females, vapor, Source: ECHA_API) |
| Acetic Acid   | 64-19-7    | Inhalation LC50 Rat > 8.5 mg/L 4 h (Source: Canada_HSA)                                                                                    |

### 11.2 Carcinogenicity:

#### International Agency for Research on Cancer (IARC)

| Chemical Name  | CAS Number | Classification |
|----------------|------------|----------------|
| No data found. |            |                |

#### National Toxicology Program (NTP)

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| Chemical Name | CAS Number | Classification                                                                                                                  |
|---------------|------------|---------------------------------------------------------------------------------------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | Male Rat - Not Tested; Female Rat - Not Tested; Male Mice - Inadequate Experiment; Female Mice - Inadequate Experiment (TR-510) |

### U.S. OSHA specifically regulated carcinogens

| Chemical Name  | CAS Number | Classification |
|----------------|------------|----------------|
| No data found. |            |                |

### 11.3 Additional Toxicology Information:

Data not available.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name | CAS Number | Species         | Exposure | Toxicity                                                                                                                                                                                     |
|---------------|------------|-----------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | Earthworm       | Acute    | LC50 48 h Eisenia foetida 0.1 - 1 mg/cm2 [filter paper] (IUCLID)                                                                                                                             |
| Ethyl Alcohol | 64-17-5    | Freshwater Fish | Acute    | LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L [static] (EPA); LC50 96 h Pimephales promelas >100 mg/L [static] (EPA); LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through] (EPA) |
| Acetic Acid   | 64-19-7    | Freshwater Fish | Acute    | LC50 96 h Pimephales promelas 79 mg/L [static] (EPA); LC50 96 h Lepomis macrochirus 75 mg/L [static] (EPA)                                                                                   |
| Ethyl Alcohol | 64-17-5    | Water Flea      | Acute    | LC50 48 h Daphnia magna 9268 - 14221 mg/L (IUCLID); EC50 48 h Daphnia magna 2 mg/L [Static] (EPA)                                                                                            |
| Acetic Acid   | 64-19-7    | Water Flea      | Acute    | EC50 48 h Daphnia magna 65 mg/L [Static] (EPA)                                                                                                                                               |

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in soil

Data not available.

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## 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.

## SECTION 14: Transportation Information

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

Not regulated according to DOT regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.



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### 14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG regulations.

## SECTION 15: Regulatory Information

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

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name  | CAS Number | RQ |
|----------------|------------|----|
| No data found. |            |    |

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

| Chemical Name | CAS Number | Regulatory Information             |
|---------------|------------|------------------------------------|
| Acetic Acid   | 64-19-7    | 5000 lb final RQ; 2270 kg final RQ |

### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name  | CAS Number | List |
|----------------|------------|------|
| No data found. |            |      |

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

| Chemical Name | CAS Number | Regulatory Information      |
|---------------|------------|-----------------------------|
| Ethyl Alcohol | 64-17-5    | Teratogen                   |
| Acetic Acid   | 64-19-7    | Present (including glacial) |

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

| Chemical Name | CAS Number | Regulatory Information                                       |
|---------------|------------|--------------------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | Present                                                      |
| Acetic Acid   | 64-19-7    | Environmental hazard; Environmental hazard (water solutions) |

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

| Chemical Name | CAS Number | Regulatory Information |
|---------------|------------|------------------------|
| Ethyl Alcohol | 64-17-5    | sn 0844                |
| Acetic Acid   | 64-19-7    | sn 0004                |

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## 15.08. California Proposition 65

| Chemical Name | CAS Number | Regulatory Information                                                                                                         |
|---------------|------------|--------------------------------------------------------------------------------------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | "carcinogen, 7/1/1988 (when associated with alcohol abuse); carcinogen, 4/29/2011"<br>As Alcoholic beverages [RR-01961-4]      |
| Ethyl Alcohol | 64-17-5    | "developmental toxicity, 10/1/1987 (listed under Ethyl alcohol in alcoholic beverages)"<br>As Alcoholic beverages [RR-01961-4] |

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

| Chemical Name | CAS Number | List | Status                                           |
|---------------|------------|------|--------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | DSL  | Present                                          |
| Ethyl Alcohol | 64-17-5    | NDSL | "Present" As Alcohols, C1-3 [68475-56-9]         |
| Acetic Acid   | 64-19-7    | DSL  | Present                                          |
| Acetic Acid   | 64-19-7    | NDSL | "Present" As Carboxylic acids, C1-5 [68937-68-8] |
| Water         | 7732-18-5  | DSL  | Present                                          |

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

| Chemical Name | CAS Number | Status                |
|---------------|------------|-----------------------|
| Ethyl Alcohol | 64-17-5    | Present (ACTIVE)      |
| Acetic Acid   | 64-19-7    | Present (ACTIVE)      |
| Water         | 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)

| Chemical Name | CAS Number | List   | Number    |
|---------------|------------|--------|-----------|
| Ethyl Alcohol | 64-17-5    | EINECS | 200-578-6 |
| Acetic Acid   | 64-19-7    | EINECS | 200-580-7 |
| Water         | 7732-18-5  | EINECS | 231-791-2 |

## 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name | CAS Number | Status          |
|---------------|------------|-----------------|
| Ethyl Alcohol | 64-17-5    | Present [38125] |
| Acetic Acid   | 64-19-7    | Present [39068] |
| Water         | 7732-18-5  | Present [32224] |

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### 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name | CAS Number | List    | Status             |
|---------------|------------|---------|--------------------|
| Ethyl Alcohol | 64-17-5    | Annex 1 | Present [KE-13217] |
| Acetic Acid   | 64-19-7    | Annex 1 | Present [KE-00013] |
| Water         | 7732-18-5  | Annex 1 | Present [KE-35400] |

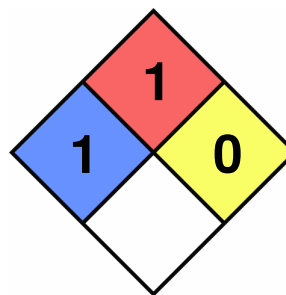
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name | CAS Number | MITI No.                                         |
|---------------|------------|--------------------------------------------------|
| Ethyl Alcohol | 64-17-5    | (2)-202                                          |
| Acetic Acid   | 64-19-7    | (2)-688                                          |
| Water         | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition) |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

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



### 16.2 Document Revision

**Last Revision Date:**  
 2026-05-07

## 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.