

Safety Data Sheet

Acetic Acid 75%

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Acetic Acid 75%

Synonyms/Generic Names: Ethanoic Acid; Methanecarboxylic Acid

Product Number: 8289

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 703-52-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Signal Word: Danger

Pictograms:



GHS Classification:

| | |
|------------------------|-------------|
| Flammable liquids | Category 4 |
| Acute toxicity, Oral | Category 5 |
| Acute toxicity, Dermal | Category 4 |
| Skin corrosion | Category 1A |
| Serious eye damage | Category 1 |
| Acute aquatic toxicity | Category 3 |

GHS Label Elements, including precautionary statements:

Hazard Statements:

| | |
|------|--|
| H227 | Combustible liquid. |
| H303 | May be harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H402 | Harmful to aquatic life. |

Precautionary Statements:

| | |
|----------------|--|
| P210 | Keep away from flames and hot surfaces. No smoking. |
| P260 | Do not breathe dusts or mists. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/eye protection/face protection/protective clothing. |
| 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 contacts if present, and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor/physician. |
| P370+P378 | In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of all contents/containers in accordance with local regulations. |

Potential Health Effects

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

NFPA Ratings

| | |
|------------------------|---------------|
| Health | 3 |
| Flammability | 1 |
| Reactivity | 0 |
| Specific hazard | Not Available |

HMIS Ratings

| | |
|-------------------|---|
| Health | 3 |
| Fire | 1 |
| Reactivity | 0 |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | Weight % | CAS # | EINECS# / ELINCS# | Formula | Molecular Weight |
|-------------|-----------|-----------|-------------------|----------------------|------------------|
| Acetic Acid | 74.5-75.5 | 64-19-7 | 200-580-7 | CH ₃ COOH | 60.05 g/mol |
| Water | Balance | 7732-18-5 | 231-791-2 | H ₂ O | 18.00 g/mol |

4. FIRST-AID MEASURES

| | |
|-------------------|--|
| Eyes | 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. |
| 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. FIREFIGHTING MEASURES

| | |
|--|---|
| Suitable (and unsuitable) extinguishing media | Combustible liquid. 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 and precautions for firefighters | Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. |
| Specific hazards arising from the chemical | Emits toxic fumes (carbon oxides) under fire conditions. (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 containment and cleaning up | Absorb spill with noncombustible absorbent material, 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. 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:

| Component | Exposure Limits | Basis | Entity |
|-------------|--------------------------------|-------|--------|
| Acetic Acid | 10 ppm 25 mg/m ³ | PEL | OSHA |
| | 10 ppm 25 mg/m ³ | TLV | ACGIH |
| | 15 ppm 37 mg/m ³ | STEL | ACGIH |
| | 10 ppm 25 mg/m ³ | REL | NIOSH |
| | 15 ppm 37 mg/m ³ | STEL | NIOSH |

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, and face shield. |
| Inhalation | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. |
| Skin | Wear nitrile or rubber gloves and full body suit. The type of 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. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-----------------------------|
| Appearance (physical state, color, etc.) | Colorless liquid |
| Odor | Irritating. |
| Odor threshold | Not Available |
| pH | <3 |
| Melting point/freezing point | -11°C (11°F) |
| Initial boiling point and boiling range | Not Available |
| Flash point | 67°C (153°F) |
| Evaporation rate | Not Available |
| Flammability (solid, gas) | Combustible |
| Upper/lower flammability or explosive limit | Not Explosive |
| Vapor pressure | Not Available |
| Vapor density | Not Available |
| Specific gravity | 1.0300 (water = 1) |
| Solubility (ies) | Completely soluble in water |
| Partition coefficient: n-octanol/water | Not Available |
| Auto-ignition temperature | Not Available |
| Decomposition temperature | Not Available |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical Stability | Stable |
| Possibility of Hazardous Reactions | Will not occur. |
| Conditions to Avoid | Heat, flames, sparks. |
| Incompatible Materials | Oxidizing agents, soluble carbonates and phosphates, hydroxides, metals, peroxides, permanganates, e.g. potassium permanganate, amines, alcohols. |
| Hazardous Decomposition Products | Carbon oxides. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|--------------------|---|
| Skin | LD50 Dermal – rabbit – 1,483 mg/kg (calculated) |
| Eyes | Not Available |
| Respiratory | Not Available |
| Ingestion | LD50 Oral – rat – 4,413 mg/kg (calculated) |

Carcinogenicity

| | |
|--------------|--|
| IARC | No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| ACGIH | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| 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

| | |
|-------------------|---|
| Eyes | Reddening, itching, inflammation. May cause blistering, tissue damage and burns. |
| Inhalation | Irritation, lacrimation, redness, pain. May cause burns, blurred vision, conjunctivitis, conjunctival and corneal destruction and permanent injury. |
| Skin | Rhinitis, sneezing, coughing, oppressive feeling in the chest or chest pain, dyspnea, wheezing, tachypnea, cyanosis, salivation, nausea, giddiness, muscular weakness. May cause chemical pneumonitis, bronchitis, and pulmonary edema. |
| Ingestion | Burning and pain of the mouth, throat, and abdomen, coughing, ulceration, bleeding, nausea, abdominal spasms, vomiting, hematemesis, diarrhea. May also effect liver, behavior, and urinary system. |

| | |
|---------------------------------------|--|
| Chronic Toxicity | Chronic exposure via ingestion may cause blackening or erosion of the teeth and jaw necrosis, pharyngitis, and gastritis. It may also behavior (similar to acute ingestion), and metabolism (weight loss). Chronic exposure via inhalation may cause asthma and/or bronchitis with cough, phlegm, and/or shortness of breath. Repeated or prolonged skin contact may cause thickening, blackening, and cracking of the skin. |
| Teratogenicity | Not Available |
| Mutagenicity | Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. |
| Embryotoxicity | Not Available |
| Target Organ(s) | Teeth, Kidneys |
| Reproductive Toxicity | Not Available |
| Respiratory/Skin Sensitization | May cause sensitization by skin contact. |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acetic Acid, Glacial

| | |
|-----------------------------|--|
| Aquatic Vertebrate | LC50 - Pimephales promelas (fathead minnow) - 79 - 88 mg/l - 96 h LC50 - Lepomis macrochirus - 75 mg/l - 96 h |
| Aquatic Invertebrate | EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h |
| Terrestrial | Not Available |

| | |
|--------------------------------------|--|
| Persistence and Degradability | Aerobic Result: 99 % - Readily biodegradable. |
|--------------------------------------|--|

| | |
|----------------------------------|---|
| Bioaccumulative Potential | Not Available |
| Mobility in Soil | Not Available |
| PBT and vPvB Assessment | Not Available |
| Other Adverse Effects | Biochemical Oxygen Demand (BOD): 880 mg/g Harmful to aquatic life. |

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 Containers | 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 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 | UN2790, Acetic acid solution, 8, pgII |
| TDG | UN2790, ACETIC ACID SOLUTION, 8, PGII |
| IMDG | UN2790, ACETIC ACID SOLUTION, 8, PGII |
| Marine Pollutant | No |
| IATA/ICAO | UN2790, Acetic acid solution, 8, pgII |

15. REGULATORY INFORMATION

| | |
|---|--|
| TSCA Inventory Status | All ingredients are listed on the TSCA Active inventory. |
| DSL / NDSL | Acetic Acid is listed on the DSL inventory. |
| California Proposition 65 | Not Listed |
| Rhode Island: Hazardous Substance List | Listed: Acetic Acid |
| Massachusetts: Toxic or Hazardous Substance List, Right to Know | Listed: Acetic Acid |
| Pennsylvania: Hazardous Substance List | Listed: Acetic Acid |
| New Jersey: Right to Know Hazardous Substance List | Listed: Acetic Acid |
| SARA 302 | Not Listed |
| SARA 304 | Not Listed |
| SARA 311 | Fire Hazard, Acute Health Hazard. |
| SARA 312 | Fire Hazard, Acute Health Hazard. |
| SARA 313 | Not Listed |
| WHMIS Canada | Class B3: Flammable and combustible material – Combustible liquid. Class E: Corrosive material. |

16. OTHER INFORMATION

| Revision | Date |
|------------|------------|
| Original | 03/30/2016 |
| Revision 1 | 03/07/2022 |
| | |

Disclaimer: The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information, and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other materials or products, or its use as to any particular process. Those handling, storing, or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. WE DO NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.