Acetic Acid MSDS Sheet, Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Acetic Acid
Synonyms: Ethanoic acid, Ethylic acid, Methanecarboxylic acid, Vinegar.

SUPPLIER
Company: Finoric LLC
Address: 8115 Loop 540, Beasley, Texas, 77417 USA

In case of emergency contact:
InfoTrac
US: 1-800-535-5053
International: 352-323-3500

Section 2 - Composition, Information on Ingredients

Chemical Name: Acetic Acid
CAS#: 64-19-7
Percent: 99-100% on dry basis. Dilution is always with water

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Danger! Acetic acid is corrosive and causes respiratory tract irritation. It is flammable. Cause digestive tract irritation. Causes severe skin and eye irritation.
Target Organs: Teeth, eyes, skin, mucous membranes.
Potential Health Effects
Eye: Acetic acid causes severe eye irritation and possible injury.
Skin: Acetic acid causes skin burns and irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Ingestion: Acetic acid may cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause severe and permanent damage to the digestive tract. Excessive intake of Acetic acid may cause erosion of the teeth.
Inhalation: Acetic acid causes respiratory tract burns and irritation.
Chronic: Repeated exposure may cause sensitization dermatitis.
HMIS (U.S.A.):
Health Hazard: 3
Fire Hazard: 2
Reactivity: 0

Section 4 - First Aid Measures

Always consult a physician after the first aid is given.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub or keep eyes closed.
Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Flammability: Flammable. Explosive in presence of oxidizing materials.
Flash Point: 40C 104F
Auto Ignition Temperature: 463C 865F
Extinguishing Media: Use DRY chemical powder, alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.
NFPA CODE: H-3, F-2, R-0

Section 6 - Accidental Release Measures

Spills/Leaks: Use proper personal protective equipment. Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. Use water spray to dilute spill to a non-flammable mixture. Avoid runoff into storm sewers and ditches which lead to waterways. Wash area with soap and water. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Cover with material such as dry soda ash or calcium carbonate and place into a closed container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container of Acetic acid tightly closed. Avoid ingestion and inhalation. Do not allow contact with heat. Do not breathe vapors or spray mist.
Storage: Store Acetic acid in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store Acetic acid protected from heat and flames.

Section 8 - Exposure Controls, Personal Protection

Airborne Exposure Limits: Airborne Exposure Limits:
OSHA Permissible Exposure Limit (PEL): 10 ppm (TWA).
ACGIH Threshold Limit Value (TLV): 10 ppm (TWA); 15 ppm (STEL).
NIOSH 10ppm TWA; 25 mg/m3 TWA 50ppm IDLH
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.
Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area of Acetic acid.

Section 9 - Physical and Chemical Properties

Appearance: Clear Liquid
Odor: Vinegar odor
Solubility: Soluble in water
Specific Gravity: 1.049
pH: 2 for 1% solution, 2.4 (1.0M solution)
% Volatiles by volume @ 21C (70F): NA
Boiling Point: 118.˚C (244.5˚F)
Melting Point: 16.6˚C (61.9˚F)
Molecular Formula:C2H4O2
Molecular Weight:60.05

Section 10 - Stability and Reactivity

Chemical Stability: Acetic acid is stable under normal temperatures and pressures. It is hygroscopic.
Conditions to Avoid: Incompatible materials, dust generation, moisture, exposure to heat, spark, moist air or water.
Incompatibilities with Other Materials: Oxidizing agents, strong alkalis and metals.
Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Acute oral toxicity (LD50): 3310 mg/kg [Rat].
Acute dermal toxicity (LD50): 1060 mg/kg [Rabbit].

Acute toxicity of the vapor (LC50): 5620 1 hours [Mouse].
LC50 Inhalation - rat - 4 h - 11.4 mg/l 4 hours

The material is not reported as a carcinogen.

Section 12 - Ecological Information

Environmental Fate: The material will readily biodegrade.
Environmental Toxicity: (LC50): 423 mg/l 24 hours [Fish (Goldfish)]. 88 ppm 96 hours [Fish (fathead minnow)]. 75 ppm 96 hours [Fish (bluegill sunfish)]. >100 ppm - 96 hours [Daphnia].

Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container of Acetic acid and unused contents in accordance with local requirements.

Section 14 - Transport Information

DOT (US)
UN number: 2789
Class: 8 (3)
Packing group: II
Proper shipping name: Acetic acid, glacial
Reportable Quantity (RQ): 5000 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2789
Class: 8 (3)
Packing group: II
Proper shipping name: Acetic acid, glacial
Reportable Quantity (RQ): 5000 lbs
Marine pollutant: No

IATA
UN number: 2789
Class: 8 (3)
Packing group: II
Proper shipping name: Acetic acid, glacial

Section 15 - Regulatory Information

USA FEDERAL

TSCA:

CAS# 64-19-7 is listed on the TSCA inventory.

OSHA:

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 64-19-7: final RQ = 5000 pounds (2270 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 64-19-7 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 2

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 2

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves (impervious). Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear

appropriate
respirator when ventilation is inadequate. Safety glasses.

STATE
CAS# 64-19-7 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canada
CAS# 64-19-7 is listed on Canada's DSL List.
This product has a WHMIS classification of B3, E.
CAS# 64-19-7 is listed on Canada's Ingredient Disclosure List.
WHMIS (Canada): CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
CLASS E: Corrosive liquid.

European/International Regulations European Labeling in Accordance with EC Directives
EINECS: 200-580-7. This product is on the European Inventory of Existing Commercial Chemical Substances.
Hazard Symbols:
C
Risk Phrases:
R 10 Flammable.
R 35 Causes severe burns.
Safety Phrases:
S 23 Do not inhale gas/fumes/vapor/spray.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16 - Additional Information

Disclaimer:
****
****
Our company provides this Acetic Acid MSDS information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Acetic Acid MSDS sheet is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
****
****

Acetic Acid Manufacturers:

Finoric LLC

Houston & Midland, Texas, and Chicago, Illinois, USA.

Tel: 1-855-346-6742 (1-855-FINORIC)
Email: info@finoric.com

Most products offered from our Houston & Midland Texas area warehouse

We solicit inquiries for processing (blending, making solutions, sieving) & re-bagging needs at our Houston & Midland facility on toll manufacturing basis.

We are looking for Technical Sales Representatives or Business Associates in New York, Williston North Dakota, Mansfield Pennsylvania, Zanesville, Ohio and Los Angeles Area, USA.