

Section 1. Product and Company Identification

Product Name Apple Cider Vinegar
CAS Number 64-19-7

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Hazard Classification

Physical Hazards

Flammable Liquids: No hazard statement

Health Hazards

Acute Toxicity (Oral): Category 4 - Harmful if swallowed, in contact with skin, inhaled

Skin Corrosion/Irritation: Category 2 - Causes skin irritation

Serious Eye Damage/Irritation: Category 2A - Causes eye irritation

Aspiration Hazard: Category 2 - May be harmful if swallowed and enters airways.

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

GHS Hazard Statements

H303 H313 H333: May be harmful if swallowed, in contact with skin or if inhaled

GHS Precautionary Statements

P101+102+103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

P202+270+280+281: Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.



P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations, and product characteristics at time of disposal.

TOTAL VOC's: 0.42 pounds per gallon

Emergency Overview

Vapors irritating to eyes and respiratory tract. Avoid inhalation. Liquid may cause eye burns and permanent damage to cornea, possibly leading to blindness. Causes skin irritation.

Health hazard data

Inhalation: Inhalation of vapors can cause irritation to respiratory tract. Avoid breathing vapors or mists.

Skin Contact: Contact may cause mild injury and burns from vinegar of 10% acetic acid and greater. Dilute solutions may cause dermatitis in some sensitive individuals.

Eye Contact: Extremely Irritating to the eyes. If not removed promptly, will injure eye tissue, which may result in permanent damage, including blindness.

Ingestion: Concentrated vinegar may cause irritation and burns in mouth, esophagus and stomach.

Carcinogenicity Information: No known cancer hazards.

Reproductive Hazards: Not a reproductive hazard.

Section 3. Composition / Information on Ingredients

Common Name Apple Cider Vinegar
Synonym(s) Acetic Acid
Formula CH₃COOH
CAS Number 64-19-7

COMPONENT	CAS NUMBER	CONCENTRATION
Apple Cider Vinegar	64-19-7	4 – 30%

Section 4. First Aid Measures

In case of eye or skin contact, flush immediately and thoroughly with water. Saturated clothing should be removed and washed. If vapors are inhaled extensively, exposed person should be removed to fresh air immediately. If swallowed in large quantities, water may be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Call a physician.



Section 5. Firefighting Measures

Flash Point: Vinegar does not flash
Auto Ignition Temperature: N/A
Flammable Limits in Air: N/A

Fire Extinguishing Agents Recommended: Vinegar is not flammable.
Fire & Explosion Hazard: Vinegar will not burn.

Section 6. Accidental Release Measures

Safeguards (Personnel): Protect Skin and eyes from exposure. Avoid breathing vapor.
Initial Containment: Contain spilled material. Water may be used to dilute. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.
Large Spill Procedure: Contain spilled material. Large spills may be neutralized with dilute alkaline solutions of soda ash or lime. Avoid runoff into storm sewers and ditches that lead to waterways. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.
Small Spills Procedure: Water may be used to dilute. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

Section 7. Handling and Storage

Handling and Storage
Handling (Personnel): Avoid breathing vapors. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.
Storage Precautions: Store in a well ventilated place.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Local exhaust ventilation may be necessary to control any air contaminants to within their TLV's during the use of this product.
Eye/Face Protection Requirements: Wear safety glasses.
Skin Protection Requirements: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Wear protective gloves to minimize skin contamination.
Respiratory Protection Requirements: When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Under normal use conditions, with adequate ventilation, no special handling equipment is required.

Exposure Guidelines for Acetic Acid

Recommended Exposure Limit: 10 ppm
Odor Threshold: 0.037 - 0.15 ppm
Immediately Dangerous to Life or Health (IDLH) Level: 1000 ppm



OSHA TWA: 10 ppm
ACGIH TWA: 10 ppm
OSHA STEL: 15 ppm
Skin Designation: Yes

Section 9. Physical and Chemical Properties

Form: Liquid
Color: Appropriate color for type of vinegar
Odor: Appropriate odor for type of vinegar
Boiling point: 215°F @ 760 mm Hg and 100 grain
Vapor pressure: 1.4 mm Hg @ 300 grain and 70°F
Vapor density: 2.4 (Air=1)
Solubility in water: Complete
Specific gravity: 1.01 to 1.04 (Water = 1)
Melting/freezing point: Vinegar: approx. 30°F (Acetic Acid 62°F)
pH: 2.2 (10% acetic acid)
% Volatiles: 100%

Section 10. Stability and Reactivity

Stability: Stable.
Polymerization: Product will not undergo polymerization.
Incompatibility with Other Materials: Avoid contact with strong oxidizing agents. Avoid contact with strong bases.
Decomposition: Decomposition will not occur if handled and stored properly. In the case of a fire, oxides of carbon, fumes, and smoke may be produced.

Section 11. Toxicological Information

Miscellaneous: No toxic effects are likely (other than contact-site irritation/damage).

Section 12. Ecological Information

No information available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

Product Label: Vinegar
DOT Shipping Name: N/A
Technical Shipping Name: N/A
DOT Hazard Class: N/A
UN Number: N/A
Product RQ: 5000 lb. (acetic acid)
DOT Label: N/A

Section 15. Regulatory Information

Canadian Disclosure List: Acetic acid (64-19-7)

FDA (Food and Drug Administration): Material is a GRAS (Generally Recognized as Safe) food ingredient.

CERCLA Hazardous substances: Acetic acid (64-19-7) - RQ 5,000 lb

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 5/31/2016

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