

### SECTION 1: PRODUCT AND COMPANY

Product Identifier/Name:	Vinegar
Synonyms:	Apple Cider Vinegar (40 to 100 Grain or 4% to 9.9%), Apple Cider Vinegar with Tarragon Flavor (40 to 100 Grain or 4% to 9.9%), Apple Cider White Distilled Vinegar (40 to 100 Grain or 4% to 9.9%), Balsamic Vinegar (40 to 100 Grain or 4% to 9.9%), Cabernet Sauvignon Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Champagne Vinegar (40 to 100 Grain or 4% to 9.9%), Chardonnay Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Corn Sugar Apple Cider Vinegar (40 to 100 Grain or 4% to 9.9%), Corn Sugar Vinegar (40 to 100 Grain or 4% to 9.9%), Fig Balsamic Vinegar (40 to 100 Grain or 4% to 9.9%), Filtered and Pasteurized - Organic Apple Cider Vinegar (40 to 100 Grain or 4% to 9.9%), Unfiltered and Pasteurized - Organic Apple Cider Vinegar (40 to 100 Grain or 4% to 9.9%), Honey Balsamic Vinegar (40 to 100 Grain or 4% to 9.9%), Kosher Balsamic Vinegar (40 to 100 Grain or 4% to 9.9%), Kosher White Balsamic Vinegar (40 to 100 Grain or 4% to 9.9%), Kosher Red Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Kosher White Distilled Vinegar (40 to 100 Grain or 4% to 9.9%), Kosher White Distilled Vinegar IP Non GMO (40 to 100 Grain or 4% to 9.9%), Kosher White Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Kosher White Wine Vinegar IP Non GMO (40 to 100 Grain or 4% to 9.9%), Malt Vinegar (40 to 100 Grain or 4% to 9.9%), Maple Syrup Vinegar (40 to 100 Grain or 4% to 9.9%), Organic Apple Cider Vinegar (40 to 100 Grain or 4% to 9.9%), Organic Apple Cider Vinegar from Single Strength Juice (40 to 100 Grain or 4% to 9.9%), Organic Filtered Tea Vinegar (40 to 100 Grain or 4% to 9.9%), Organic Red Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Filtered Organic Tea Vinegar (40 to 100 Grain or 4% to 9.9%), Organic Tea Vinegar (40 to 100 Grain or 4% to 9.9%), Pinot Noir Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Premium Red Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Raw Apple Cider Vinegar (40 to 100 Grain or 4% to 9.9%), Red Wine Vinegar (40 to 100 Grain or 4% to 9.9%), Rice Vinegar (40 to 100 Grain or 4% to 9.9%), Sherry Wine Vinegar (40 to 100 Grain or 4% to 9.9%), White Balsamic Vinegar (40 to 100 Grain or 4% to 9.9%), White Wine Vinegar (40 to 100 Grain or 4% to 9.9%)
Product Use:	Food
Manufactured by:	Fleischmann's Vinegar Company, Inc. 12604 Hiddencreek Way, Suite A Cerritos, CA 90703 USA Telephone: (562) 483-4600
Emergency Number:	CHEMTREC: 1-(800) 424-9300 or 011-(703)527-3887

### SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Causes eye irritation 2A

#### WARNING



Hazard Statements: H319: Causes serious eye irritation

Precautionary Statements:

Prevention: P264: Wash exposed skin thoroughly after handling.

P280: Wear eye and face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

Storage: None.

Disposal: None.

Hazards not otherwise classified: Prolonged or excessive inhalation may cause respiratory tract irritation.

### SECTION 3: COMPOSITION /INFORMATION ON INGREDIENTS

Chemical name	Concentration	CAS
Acetic acid	4%-10%	64-19-7
Water	90% - 96%	7732-18-5

**SECTION 4: FIRST-AID MEASURES**

Eye contact: Immediately flush eyes with plenty of water. May be Irritating to the eyes.  
 Skin contact: Contact may cause slight skin irritation. If skin irritation occurs, flush skin with plenty of water.  
 Inhalation: If odor causes irritation, remove to fresh air. Prolonged or excessive inhalation may cause respiratory tract irritation.  
 Ingestion: Intended for ingestion, however if consumed in large amounts, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda.

**SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media: N/A  
 Specific Hazards: N/A  
 Special Fire Fighting Methods: N/A

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures: Protect eyes from exposure. Avoid prolonged breathing of vapor and skin exposure.  
 INITIAL CONTAINMENT: Water may be used to dilute. Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.  
 LARGE SPILLS PROCEDURE: Water may be used to dilute. Treat or dispose of waste material as a weak acid 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 as a weak acid in accordance with all local, state/provincial and national requirements.  
 Environmental Precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling: Avoid breathing vapor. Avoid contact with eyes.  
 Conditions for safe storage, including any incompatibilities: Keep container closed when not in use. Store in a well ventilated place.  
 Incompatible products: Strong oxidizers, metals, strong bases.

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

Control Parameters: Operations with potential for generating high concentrations of fumes should be evaluated and controlled as necessary.  
 Exposure Limits: No permissible exposure limits (PEL) or threshold limit values (TLV) exist for vinegar. See table below for component materials.

Components	OSHA PEL (mg/m <sup>3</sup> )	NIOSH REL/IDLH (mg/m <sup>3</sup> )	ACGIH TLV/STEL (mg/m <sup>3</sup> )	Quebec (mg/m <sup>3</sup> )	Ontario TWA (mg/m <sup>3</sup> )	EU OELs (mg/m <sup>3</sup> )
Acetic Acid	25	25 / 125	25 / 37	25	25	25

Appropriate engineering controls: Emergency eye wash stations should be available in the immediate vicinity. Good general ventilation should be sufficient to control airborne levels.  
 Hand protection: Wear protective gloves as needed for handling.  
 Eye protection: Wear eye protection as needed for handling. Use goggles or face shield when splashing is likely.  
 Skin and body protection: General clothing is adequate  
 Respiratory protection: Under normal use conditions, with adequate ventilation no special handling equipment is required.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Liquid
Odor:	Strong Vinegar
Odor threshold:	No data available
pH:	2.3
Melting point:	Vinegar @ 30F (Acetic Acid @ 62F)
Boiling point:	214F @ 760 mm Hg and 10% acetic acid
Flash point:	Does not flash
Evaporation rate:	No data available
Flammability (solid, gas):	N/A
Upper/Lower Explosive Limit:	N/A
Vapor pressure:	0.42 mm Hg @ 70 F at 10% acetic acid
Relative vapor density at 20 C:	2.1 (Air = 1)
Relative density:	No data available
Density:	1.01 (water = 1)
Solubility:	Complete
Partition coefficient:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	0.894

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity:	No data available
Chemical stability:	Stable under normal conditions
Hazardous Reactions:	Contact with strong oxidizing agents or strong bases may result in the release of heat or gas.
Incompatible materials:	Water reactive materials, acetic anhydride, caustics, oxidizing materials, carbonates, strong bases
Hazardous decomposition products:	Decomposition will not occur if handled and stored properly.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Routes of entry:	Inhalation, ingestion and skin contact
Symptoms (acute):	Respiratory irritation
Delayed effects:	No data available
Acute Toxicity:	No toxic effects are likely (other than eye irritation from direct contact, or respiratory irritation from excessive exposure to vapor).
Skin corrosion/irritation:	Solutions of 3.3% and 10% acetic acid produced primary dermal irritation index (PDII) scores of 0.5 and 1.1, respectively, when tested with rabbits.
Serious eye damage/irritation:	Prolonged or excessive inhalation may cause eye irritation.
Carcinogenicity:	No evidence of a carcinogenic effect
Mutagenicity:	No evidence of a mutagenicity effect
Teratogenicity:	No evidence of a teratogenicity effect
Sensitization:	No evidence of a sensitization effect
Reproductive:	No evidence of a Reproductive effect

**SECTION 12: ECOLOGICAL INFORMATION**

Overview:	This material is not expected to be harmful to the environment
Persistence and degradability:	Biodegrades readily under aerobic and anaerobic conditions.
Bioaccumulation:	No tendency to bioaccumulate.
Mobility in soil:	No data
Other adverse effects:	No data
Accute or chronic toxicity to aquatic organisms:	The low pH may result in acute ecotoxicity effects to organisms.

<b>Chemical name</b>	<b>CAS</b>	<b>Ecotoxicity</b>
Water	7732-18-5	No data available

Acetic Acid

64-19-7

Aquatic 96-h LC50 Fluegill Sunfish 75 mg/L  
Aquatic 96-h LC50 Mosquito Fish 251 mg/L  
Aquatic 96-h LC50 Fathead Minnow 79 mg/L  
Aquatic 24-h LC50 Daphnia 47 mg/L  
Aquatic 24-h EC50 at pH 7 Daphnia 6,000 mg/L  
Aquatic 48-h EC50 Daphnia 65 mg/L  
Aquatic Plants 8-day growth inhibition 4,000 mg/L

**Section 13: DISPOSAL CONSIDERATIONS**

Waste disposal recommendations: Dispose in accordance with local, state/provincial, and national requirements

**SECTION 14: TRANSPORT INFORMATION**

Transportation of Fleischmann's Vinegar's products covered by this SDS are subject to conditions set forth in Special Permit DOT-SP 16198. Specifically, the Special Permit provides that "food grade" (as defined by the FDA) bulk vinegar with up to 30% acetic acid that meets the exemption conditions stated in the Special Permit will not be a 49 CFR §171.8 hazardous substance. Additional guidance can be found in Special Permit DOT-SP 16198 or by contacting Fleischmann's Vinegar.

\* DOT-SP 16198 is solely applicable to Fleischmann's Vinegar's products and transporters of those products.

DOT:

UN Number: 3082

UN Proper Shipping Name: Environmentally hazardous substance, Liquid, n.o.s.

Transport Hazard Class(es): 9 Miscellaneous

Packaging Group: III

IATA:

UN Number: 2790

UN Proper Shipping Name: Acetic Acid Solution

Transport Hazard Class(es): 8 Corrosive Substance

Packaging Group: III

Transport in bulk: Limitation to Cargo Aircraft only 60L

IMDG:

UN Number: 2790

UN Proper Shipping Name: Acetic Acid Solution

Transport Hazard Class(es): 8 Corrosive Substance

Packaging Group: III

Segregation Group: 1(Acids).

Marine Pollutant: Not regulated.

**SECTION 15: REGULATORY INFORMATION**

TSCA:	All components of this product are listed on the TSCA inventory.
SARA 304 CERCLA Hazardous Substances:	SARA 304 CERCLA reporting obligations exist for acetic acid (64-19-7) with a reportable quantity of 5000 lbs 100% acetic acid; (e.g., 16,667 lb of 30% acetic acid)
FDA (Food and Drug Administration):	Vinegar is a GRAS (Generally Recognized as Safe) food ingredient.
Canada Disclosure List:	Acetic acid (64-19-7)

**SECTION 16: OTHER INFORMATION**

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Prepared by: Fleischmann's Vinegar Company