Safety Data Sheet

SECTION 1.	PRODUCT AND COMPANY
Product identifier/Name:	Vinegar
Synonyms	White Distilled Vinegar (120 to 300 Grain / 12% to 30%), White Distilled Vinegar - Organic (120 to 300 Grain / 12% to 30%), White Distilled Vinegar IP Non GMO (120 to 300 Grain / 12% to 30%), Vinaigre Blanc (120 to 300 Grain / 12% to 30%), Crystal Select Vinegar (120 to 300 Grain / 12% to 30%), Water-White Vinegar (120 to 300 Grain / 12% to 30%)
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	Skin Corrosive 2, Eye Irritant 2A, Hazardous to aquatic environment
WARNING	
Hazard Statements	H320: Causes eye irritation H315: Causes skin irritation H332: Harmful if inhaled H402: Harmful to aquatic life
Precautionary Statements	P261: Avoid breathing fumes/mist/vapors/spray P264: Wash exposed skin thoroughly after handling. P280: Wear protective gloves to avoid prolonged exposure. 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 contact lenses, if present and easy to do. Continue rinsing. P273: Avoid release into the environment

SECTION 3. COMPOSITION /INFORMATION ON INGREDIENTS

Chemical name	Concentration	CAS
Acetic acid	10% - 30%	64-19-7
Water	70% - 90%	7732-18-5

SECTION 4. FIRST-AID MEASURES

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER
Skin contact	If on skin; wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. If on clothes; remove/take off all contaminated clothing. Rinse skin with soap and water.
Inhalation	Remove to fresh air and keep in position comfortable for breathing.
Ingestion	Intended for ingestion, however if swallowed in large quantities, water may be consumed to dilute. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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 skin and eyes from exposure. Avoid breathing vapor LARGE SPILLS 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 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	Provide good ventilation to prevent formation of vapor. Avoid breathing vapors, contact with eyes, skin and clothing.
Conditions for safe storage, including any	Keep container closed when not in use.
Incompatible products	Strong oxidizers, metals, strong bases.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

	ACGIH		OSHA PEL		IDLH
Chemical Name	**TWA**	**STEL**	**TWA**	**STEL**	
Acetic Acid	10ppm	15ppm	10ppm; 25mg/m3	N/A	50ppm 125mg/m3

Appropriate engineering controls:	Emergency eye wash stations should be available in the immediate vicinity. General room ventilation should be maintained for operator comfort.
Hand protection:	Rubber gloves should be worn to avoid prolonged exposure
Eye protection:	Chemical goggles or face shield.
Skin and body protection:	General clothing is adequate
Respiratory protection:	Wear NIOSH/MSHA approved respiratory protection in enclosed areas

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Odor:	Strong Vinegar
Odor threshold:	No data available
pH:	2.1 - 2.8
Melting point:	Vinegar @ 30F (Acetic Acid @ 62F)
Boiling point:	215F @ 760 mm Hg and 100 grain
Flash point:	N/A
Evaporation rate:	No data available
Flammability (solid, gas):	N/A
Upper/Lower Explosive Limit	N/A
Vapor pressure:	1.4 mm Hg @ 300 grain and 70F
Relative vapor density at 20 C:	2.1 (Air = 1)
Relative density:	No data available
Density:	1.01 to 1.04 (water = 1)
Solubility:	Complete

SECTION 9.	PHYSICAL AND CHEMICAL PROPERTIES
Partition coefficient	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

SECTION 10.	STABILITY AND REACTIVITY
Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	Contact with strong oxidizing agents or strong bases may result in the release of heat.
Incompatible materials	Water reactive materials, acetic anhydride, caustics, oxidizing materials, carbonates
Hazardous decomposition products	Carbon dioxide. Thermal decomposition may generate corrosive vapors.

SECTION 11.	TOXICOLOGICAL INFORMATION
Routes of entry	Inhalation, ingestion and skin contact
Symptoms (acute)	Respiratory irritation
Delayed effects	No data available

Acute Toxicity:

Chemical name	CAS	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Rat 90000mg/kg		
Acetic Acid	64-19-7			Mouse 5620ppm

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	Biodegradation
Bioaccumulation	No data
Mobility in soil	No data

Other adverse effects	No data

SECTION 12. ECOLOGICAL INFORMATION

Chemical name	CAS	Ecotoxcity
Water	7732-18-5	No data available
Acetic Acid	64-19-7	Aquatic LC50 (96h) Fathead Minnow 79mg/l Aquatic EC50 (24h) Daphnia 47mg/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 SP 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 SP will not be a 49 CFR §171.8 hazardous substance. Additional guidance can be found in SP 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.

SECTION 15. REGULATORY INFORMATION

Chemical name	CAS	Section 313	Section 304 RQ	CERCLA RQ	Section 302 TPQ	CAA 112 (2)
Acetic Acid	64-19-7	no	5000lb	5000lb	no	no

SECTION 16. OTHER INFORMATION

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Prepared by:	Fleischmann's Vinegar Company