

KARI OUT 690 Union Blvd., Totowa, New Jersey 07512		FORM #:	MSDS-001
		Date:	4 Aug 2015
FORM		Supersedes:	N/A
Title	SAFETY DATA SHEET FOR WHITE VINEGAR	Revision #:	Original
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Section I - Product Information

TRADE NAME: White Vinegar
CAS No. : 64-19-7
Chemical Name: Acetic Acid
Formula: CH₃COOH
Synonyms: Ethanoic Acid

Section II - Hazards Identification

EMERGENCY OVERVIEW

Vapors irritating to eye. May cause allergic skin reaction. May cause respiratory irritation. Avoid inhalation.

HEALTH HAZARD DATA

EYE: Extremely Irritating to the eyes. If not removed promptly, may cause eye burns and permanent damage to eye tissue, cornea, possibly leading to blindness. High vapor concentrations may result in conjunctivitis.

SKIN: Causes skin irritation and possible burns. Dilute solutions may cause dermatitis in some sensitive individuals.

INHALATION: Prolonged or excessive inhalation may cause irritation to nose, throat, and respiratory tract. Avoid breathing vapors or mists.

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

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

- GHS Classification

Contains hazardous materials

Section III — Composition/Information on Ingredients

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Active Ingredient:	% in product:	CAS Number
Acetic Acid	< 30 %	64-19-7
Water	> 70 %	7732-18-5

Section IV — First Aid Measures

Description of First Aid Measures

Inhalation: Move to fresh air. Loosen collar or shirt. Seek medical advice if breathing difficulties occur.

Skin Contact: Remove clothing near area. Wash exposed area with water. If symptoms persist, seek medical attention.

Eye Contact: Remove contact lenses. Flush eye area for 15 minutes with large concentrations of water. If symptoms persist, obtain medical advice.

Ingestion: Drink several glasses of milk or water. Do not induce vomiting. Do not give emetics or baking soda. Never give anything by mouth to an unconscious person. If symptoms persist, obtain medical advice.

Section V— Fire-Fighting Measures

NFPA Rating: Health: 1; Flammability: 0, Reactivity: 0

Extinguishing Media

Suitable Extinguishing Media: Water spray/ all-purpose dry chemical, foam carbon dioxide

Unsuitable Extinguishing Media: None anticipated

Specific Hazards Arising From The Substance: Material will not burn

Special Protective Equipment and Precautions For Fire-fighters: Fire-fighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

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Section VI— Accidental Release Measures

Personal Precautions, Protective Equipment And Emergency Procedures

Protect skin and eyes from exposure. Avoid breathing vapor.

Methods And Material For Containment And Cleaning Up

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 VII — Handling and Storage

Precautions For Safe Handling Wash affected skin with plenty of water. Remove contaminated clothing and wash clothing before reuse. Provide adequate ventilation. Avoid contact with skin, eyes or clothing.

Conditions For Safe Storage, Including Incompatibilities

Storage Temperature Store in closed container, away from incompatible substances in a well ventilated place.

Section VIII — Exposure Controls/Personal Protection

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Control Parameters:

Occupational Exposure Limits

Chemical	CAS No.	Long Term Exposure Limit (LTEL 8 hr TWA ppm)		Short Term Exposure Limit (STEL ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Acetic Acid	64-19-7	10	10	15	15	-

Exposure controls

Appropriate Engineering Controls: Not normally required.

Personal Protective Equipment

Eye/Face Protection: Wear safety glasses recommended

Industrial use: Wear safety glasses

Skin Protection Not required under normal consumer use

Industrial use: Wear suitable gloves if prolonged skin contact is likely

Respiratory Protection: Not required under normal consumer use

Industrial use: In case of inadequate ventilation wear respiratory protection

Thermal Hazards: Not normally required.

Environmental Exposure Controls: Not normally required.

Section IX - Physical And Chemical Properties

Appearance

Liquid

Color

Clear, colorless

Odor

Pungent, typical aroma for white vinegar

Melting Point/Freezing Point (°F)

~30 (Vinegar), 62 (Acetic Acid)

Boiling Point (°F)

244 @ 760 mm Hg (Acetic Acid)

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Flash Point	Vinegar does not flash
Flammability (solid, gas)	Not Available
Upper/Lower Flammability or Explosive Limits	Not Available
Vapor Pressure	11 mm Hg @ 68°F (Acetic Acid)
Solubility	Water Soluble
Partition Coefficient	Not Available
Auto-Ignition Temperature	Not Available
pH (76°F-78° F)	2.3 – 2.8

Section X — Stability And Reactivity

Reactivity	Stable under normal conditions
Chemical Stability	Stable
Possibility Of Hazardous Reactions	None anticipated
Conditions To Avoid	Avoid contact with strong bases and oxidizing agents
Incompatible Materials	Strong bases, oxidizing agents
Hazardous Decomposition Products	Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon (CO and CO ₂), fumes and smoke may be produced.

Section XI—Toxicological Information

Information on Toxicological Effects

Substance	No toxic effects are likely (see Section II – Hazards Identification)
Acute toxicity	Not available.
Irritation	See Section II – Hazards Identification
Sensitization	See Section II – Hazards Identification
Repeated dose toxicity	Not available.

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Carcinogenicity

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

Mutagenicity

Not available.

Toxicity for reproduction

Not a reproductive hazard.

Section XII— Ecological Information

Biodegrades readily under aerobic and anaerobic conditions. No tendency to bioaccumulate.

Section XIII— Disposal Considerations

Waste treatment methods: Disposal should be in accordance with local, state or federal regulations. Consult an accredited waste disposal contractor or the local authority for advice.

Section XIV—Transport Information

DOT (DEPARTMENT OF TRANSPORTATION)

Product Label	Vinegar
UN number	N/A
Proper Shipping Name	N/A
Product RQ	5000 lbs. (Acetic Acid)
Transport hazard class	N/A
Hazard label(s)	N/A

Section XV—Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

EPA TSCA Status: Acetic Acid (64-19-7) on TSCA Inventory

SARA (Superfund Amendments and Reauthorization Act) 311/312 - Hazard Categories: Acute
 CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Section 103:

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Acetic Acid (64-19-7) - RQ (Reportable Quantity) 5000 lbs

FDA (Food and Drug Administration)

Material is a GRAS (Generally Recognized as Safe) food ingredient

Canadian Disclosure List

Acetic Acid (64-19-7)

Section XVI—Other Information

The information in this MSDS was obtained from current and reputable sources. However, the data is provided without any warranty, express, or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe condition for use of this product and to assume liability for loss, injury, damage, or expense resulting from improper use of this product.