



Technical

American Vegetable Oils

7244 Condor Street
Commerce, CA 90040
Tel: 323.722.4328 Fax: 323.722.4281
Website: www.americanvegoil.com

MATERIAL SAFETY DATA SHEET (MSDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Date Issued: January 12, 2015
Trade Name: Vinegar, All Varieties
Definition: Product made by the acetic fermentation of ethyl alcohol.

2. COMPOSITION:

Chemical name	Chemical Formula	Concentration	CAS number
Acetic acid	CH ₃ COOH	4 to 30% Wt/Vol (40 to 300 grain)	64-19-7

(See section 8 for exposure guidelines)
(See section 15 for regulatory information)

HAZARDS DISCLOSURE:

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

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

EYES:

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.

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CARCINOGENICITY INFORMATION:

No known cancer hazards.

REPRODUCTIVE HAZARDS:

Not a reproductive hazard.

4. EMERGENCY & FIRST-AID PROCEDURES

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.

5. FIRE AND EXPLOSION HAZARD DATA

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.

NFPA RATING

Red Diamond (Flammability) Code 0	Yellow Diamond (Reactivity) Code 0	Blue Diamond (Health) Code 1	White Diamond (Special Warning) none
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6. ACCIDENTAL RELEASE MEASURES

SAFEGARDS (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:

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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.

7. 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.

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

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OSHA STEL:	15 PPM
Skin Designation:	Yes

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:	2.1 (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%

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.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.



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14. TRANSPORTATION 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

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

16. OTHER INFORMATION

The information is furnished without warranty, expressed or implied, except that it is accurate to the best of the preparer's knowledge. The data on this sheet are related only to the specific material designated herein. The preparer assumes no legal responsibility