

# Product Information

## MATERIAL SAFETY DATA SHEET



### 1. PRODUCT AND COMPANY IDENTIFICATION

**Date Issued:** December 30, 2010  
**Trade Name:** **Vinegar, All Varieties**  
**Definition:** Product made by the acetic fermentation of ethyl alcohol.

**Manufacturer's Name and Address:** Rosa Food Products Co., Inc.  
2750 Grays Ferry Avenue  
Philadelphia, PA 19146  
**Phone Number:** (215) 467-2214

### 2. COMPOSITION:

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

### 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:** Contact may cause severe burns and permanent corneal injury from concentrated vinegar. May be followed by blindness. High vapor concentrations may result in conjunctivitis.

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

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### 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, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Call a physician.

### 5. FIRE AND EXPLOSION HAZARD DATA

#### Vinegar

Flash Point: N/A  
Auto Ignition Temperature: N/A  
Flammable Limits in Air: N/A

#### FIRE EXTINGUISHING AGENTS RECOMMENDED:

Water spray, foam CO<sub>2</sub> or dry chemical.

Water may be used to dilute spills and reduce flammability.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic gases and vapors may be released in a fire involving concentrated vinegar.

#### NFPA RATING

**Red Diamond**  
(Flammability)  
Code 2

**Yellow  
Diamond**  
(Reactivity)  
Code 0

**Blue  
Diamond**  
(Health)  
Code 1

**White Diamond**  
(Special Warning)  
none

### 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:

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.

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### 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

#### 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

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### 8. 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:	(Acetic Acid) 11 mm Hg @ 68°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%

### 9. 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.

### 10. TOXICOLOGICAL INFORMATION

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

### 11. ECOLOGICAL INFORMATION

No information available.

### 12. DISPOSAL CONSIDERATIONS

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

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### 13. 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

### 14. 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

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