

10/24/14

NATIONAL VINEGAR COMPANY  
P.O. Box 255  
108 Chessen Lane  
Alton, IL 62002  
Phone: 618-465-6532 – Fax: 618-465-7111

National Brand pure  
White Distilled  
Vinegar

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Date Issued: July 2012  
Trade Name: Vinegar, all varieties  
Definition: Product made by the acetous fermentation of ethyl alcohol containing

Manufacturer's Name and Address:	National Vinegar Co. P.O. Box 255 Alton, IL 62002	National Vinegar Co. 103 W. South Ave Olney, IL 62450
Phone:	800-783-3822	800-783-9723

### 2. COMPOSITION INFORMATION

Chemical Name: Acetic Acid  
Chemical Formula:  $\text{CH}_3\text{COOH}$   
CAS Number: 64-19-7  
Concentration: 4% - 10% (40 grain – 300 grain)

#### HAZARDS DISCLOSURE:

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

### 3. HAZARD IDENTIFICATION

#### INHALATION:

Avoid breathing vapors. Inhalation of vapors can cause irritation to respiratory tract.

#### 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:

Avoid contact with eyes. If not removed promptly, will injure eye tissue which may result in permanent damage, including blindness.

#### INGESTION:

Concentrated vinegars may cause pain, irritation, and burns in mouth, esophagus, and stomach.

#### CARCINOGENICITY INFORMATION:

No known cancer hazards.

#### REPRODUCTIVE HAZARDS:

Not a reproductive hazard.

#### **4. EMERGENCY AND FIRST AID PROCEDURES**

##### **EYE OR SKIN CONTACT FIRST AID:**

In case of eye or skin contact, flush immediately and thoroughly with water. Saturated clothing should be removed and washed. Seek medical attention if irritation continues.

##### **INHALATION FIRST AID:**

If vapors are inhaled extensively, exposed person should be removed to fresh air immediately. Seek medical attention if irritation continues.

##### **INGESTION FIRST AID:**

If swallowed, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Seek medical attention.

#### **5. FIRE AND EXPLOSION HAZARD DATA**

Flash Point:	Not applicable.
Auto Ignition Temperature:	Not applicable.
Flammable Limits in Air:	Not applicable.
Fire Extinguishing Agents:	Vinegar will not burn.
Fire and Explosion Hazards:	Vinegar will not burn.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **SPILL PROCEDURE:**

Water may be used to dilute. Treat or dispose of waste material as a weak acid in accordance with all local, state, 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 PRECAUTION:**

Store in a well ventilated place.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION**

##### **RESPIRATORY PROTECTION:**

Under normal use conditions with adequate ventilation, no special handling equipment is necessary.

##### **VENTILATION:**

Good general ventilation should be sufficient.

##### **EYES AND FACE**

Safety glasses or plastic face shield recommended.

##### **SKIN:**

None needed for proper use in accordance with label direction. Where prolonged or frequently repeated contact could occur, use protective clothing or gloves to minimize skin contamination.

##### **OTHER EQUIPMENT:**

Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower.

**EXPOSURE GUIDELINES:**

**Note these values refer to the acetic acid content.**

OSHA Permissible Exposure Limit (PEL).....10 ppm acetic acid (25 mg/m<sup>3</sup>)  
*(The PEL is the official OSHA occupational exposure standard, and is an 8-hour time-Weighted average (TWA))*

ACGIH Threshold Limit Value (TLV).....10 ppm acetic acid (25 mg/m<sup>3</sup>)  
*(The TLV is the 8-hour TWA occupational exposure guidance level recommended by The American Conference of Governmental Industrial Hygienists)*

ACGIH Short-term Exposure Limit (STEL).....15 ppm acetic acid (37 mg/m<sup>3</sup>)  
*(The STEL is a level that can be permitted for up to 15 minutes, up to 4-times per day, provided the overall work shift average does not exceed the TLV-TWA)*

Recommended Exposure Limit (REL).....10 ppm acetic acid (25 mg/m<sup>3</sup>)  
*(The REL is the maximum exposure level recommended by the National Institute for Occupational Safety and Health)*

Immediately Dangerous to Life or Health (IDLH) Level..50 ppm acetic acid (125 mg/m<sup>3</sup>)  
*(The IDLH is the maximum concentration in air from which one could escape within 30 minutes without escape-impairing symptoms or irreversible health effects)*

Skin Designation.....No

Odor Threshold.....0.037-0.15 ppm acetic acid

**9. PHYSICAL DATA AND CHEMICAL PROPERTIES**

FORM.....	Liquid
COLOR.....	Appropriate color for type of vinegar
ODOR.....	Appropriate odor for type of vinegar
BOILING POINT.....	214°F
VAPOR PRESSURE.....	16.9 mm Hg at 100 grain
VAPOR DENSITY (AIR=1).....	2.1
SOLUBILITY IN WATER.....	Complete
SPECIFIC GRAVITY.....	1.01 at 100 grain
MELTING/FREEZING POINT.....	Below 26°F at 100 grain
PH.....	2.2 at 100 grain
% VOLATILES.....	100%

**10. STABILITY/REACTIVITY DATA**

**STABILITY:**

Stable.

**POLYMERIZATION:**

Product will not undergo polymerization.

**INCOMPATIBILITY:**

Avoid contact with strong oxidizing agents. Avoid contact with strong bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Decomposition will not occur if handled and stored correctly.

**11. TOXICOLOGICAL INFORMATION**

MISCELLANEOUS:

No toxic effects are likely (other than eye irritation from direct contact, or respiratory irritation from excessive exposure to vapor).

**12. ECOLOGICAL INFORMATION**

No informational available.

**13. DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHODS:

Treatment or disposal of waste generated by use of vinegar should be reviewed in terms of applicable federal, state, and local laws and regulations. Users are advised to consult with appropriate regulatory agencies before discharge, treatment, or disposal.

**14. TRANSPORT INFORMATION**

PRODUCT LABEL.....	Vinegar
DOT SHIPPING NAME.....	Not applicable
TECHNICAL SHIPPING NAME.....	Not applicable
DOT HAZARD CLASS.....	Not applicable
UN NUMBER.....	Not applicable
PRODUCT RQ (lbs).....	Quantity containing the equivalent of 5,000 lbs of 100% acetic acid, (e.g., 50,000 lb of vinegar containing 10% acetic acid)
DOT LABEL.....	Not applicable

**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.