

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### **Product Identification**

Product Name: Vinegar, concentrated Synonyms: 40 - 100 grain vinegar

Chemical Name: Vinegar

Chemical Family: Carboxylic acid CAS Number: 8028-52-2

### **Company Identification**

Mizkan Americas, Inc. 1661 Feehanville Dr., Suite 300 Mount Prospect, IL 60056 (847) 590 –0059

Contact Name: Zia Mir, VP of Technical Services (Phone Extension x1331)

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#### 2. COMPOSITIONIINFORMATION ON INGREDIENTS

Chemical NameAmountCAS NumberACETIC ACID4.0-10.0%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**

#### **CAUTION**

Eye irritant. Prolonged or excessive inhalation may cause respiratory tract irritation.



#### POTENTIAL HEALTH EFFECTS

EYE:

Irritating to the eyes.

INHALATION:

Prolonged or excessive inhalation may cause respiratory tract irritation.

**INGESTION:** 

No hazard in normal use.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

**REPRODUCTIVE HAZARDS:** 

Not a reproductive hazard.

#### 4. FIRST AID MEASURES

### EYE CONTACT FIRST AID:

Immediately flush eyes with plenty of water.

# INHALATION FIRST AID:

If exposed to excessive levels of fumes, remove to fresh air.

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

If swallowed in large amounts, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda.

### 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

Flash Point: Not Applicable - no flash when sample of 100-grain white distilled vinegar tested in tag closed cup tester.

#### FLAMMABLE LIMITS IN AIR

LEL: Not Applicable UEL: Not Applicable

### **EXTINGUISHING MEDIA:**

Will not burn

#### FIRE & EXPLOSION HAZARDS:

Material will not burn.



### 6. ACCIDENTAL RELEASE MEASURES

### SAFEGUARDS (PERSONNEL):

Protect eyes from exposure. Avoid breathing vapor.

#### **INITIAL CONTAINMENT:**

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.

#### LARGE SPILLS PROCEDURE:

Water may be used to dilute. 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 as a weak acid in accordance with all local, state/provincial, and national requirements.

#### 7. HANDLING AND STORAGE

#### HANDLING (PERSONNEL):

Avoid breathing vapor. Avoid contact with eyes.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **ENGINEERING CONTROLS:**

Good general ventilation should be sufficient to control airborne levels.

#### EYE / FACE PROTECTION REQUIREMENTS:

Where contact with this material is likely, eye protection is recommended.

### SKIN PROTECTION REQUIREMENTS:

None needed for proper use in accordance with label directions.

### RESPIRATORY PROTECTION REQUIREMENTS:

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

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#### **EXPOSURE GUIDELINES:**

### Note, these values refer to the acetic acid content

OSHA Permissible Exposure Limit (PEL)......10 ppm acetic acid (25 mg/m³) (The PEL is the official OSHA occupational exposure standard, and is an 8-hour time-Weighted average (TWA))

ACGIH Short-tenn Exposure Limit (STEL)........15 ppm acetic acid (37 mg/m³) (The STEL is a level that can be permitted for up to 15 minutes, up to 4-times per day, Provided the overall workshift average does not exceed the TLV-TWA)

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM...... Liquid
COLOR...... Appropriate color for type of vinegar
ODOR.... Appropriate odor for type of vinegar

SOLUBILITY IN WATER..... Complete

% VOLATILES..... 100 %

### 10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.



(section 10 continued)

#### 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.

#### 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

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

#### 13. DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL:

Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.

### 14. TRANSPORTATION INFORMATION

PRODUCT LABEL	Vinegar
DOT SHIPPING NAME	Not Applicable
TECHNICAL SHIPPING NAME	Not Applicable
DOT HAZARD CLASS	Not Applicable
UN NUMBER	Not Applicable
	Quantity containing the equivalent of 5,000 lb 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)

### **CERCLA Hazardous Substances**

acetic acid (64-19-7) -- RQ = quantity containing 5,000 lb of 100% acetic acid; (e.g., 50,000 lb of 10% acetic acid)

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(section 15 continued)

# FDA (FOOD AND DRUG ADMINISTRATION):

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

## 16. OTHER INFORMATION

The information in the MSDS related to this specific material. It is the user's responsibility to evaluate the applicability of this information for their particular conditions of storage, handling, and use.