# MATERIAL SAFETY DATA SHEET

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT IDENTIFICATION

PRODUCT NAME: VINEGAR

SYNONYMS: 50 GRAIN VINEGAR

CHEMICAL NAME: VINEGAR

CHEMICAL FAMILY: CARBOXYLIC ACID

CAS NUMBER: 8028-52-2

#### **COMPANY IDENTIFICATION**

AMERICAN VEGETABLE OILS, INC.

7244 CONDOR ST.

COMMERCE, CA 90040

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**CONTACT NAME: VINCENT LIN** 

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## II. COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAME AMOUNT CAS NUMBER

<u>ACETIC ACID</u> <u>4.0 – 10.0%</u> <u>64-19-7</u>

(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

#### III. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

EYE IRRITANT. PROLONGED OR EXCESSIVE EXPOSURE MAY CAUSE RESPIRATORY TRACT IRRITATION

**POTENTIAL HEALTH EFFECTS** 

EYE:

**IRRITATING TO THE EYES** 

**INHALATION:** 

PROLONGED OR EXCESSIVE INHALATION MAY CAUSE

RESPORATORY TRACT IRRITATION

INGESTION:

NO HAZARD IN NORMAL USE

CARCINOGENICITY INFORMATION: NO KNOWN CANCER HAZARDS

**REPRODUCTIVE HAZARDS:** 

NOT A REPRODUCTIVE HAZARD

## IV. 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

### V. 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

## VI. 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.

#### VII. HANDLING AND STORAGE

HANDLING (PERSONNEL):

AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES.

## VIII. 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.

**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)

ACGIV Threshold Limit value (TLV) ......10 ppm acetic acid (25 mg/m3) (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/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 TLVTWA) Recommended Exposure Limit (REL) ...... 10 ppm acetic acid (25 mg/m3) (The REL is the maximum exposure level recommended by the National Institute for

Immediately Dangerous to Life or Health (IDLH) Level ..... 50 ppm acetic acid (125 mg/m3)

(The IDLH is the maximum concentration is air from which one could escape within 30 minutes without escape impairing symptoms or irreversible health effects)

Skin Designation .....No

## IX. PHYSICAL AND CHEMICAL PROPERTIES

**Occupational Safety and Health)** 

**FORM LIQUID** 

COLOR APPROPRIATE COLOR FOR TYPE OF VINEGAR
ODOR APPROPRIATE ODOR FOR TYPE OF VINEGAR

BOILING POINT 214 DEGREES F @ 760 MM HG AT 10% ACETIC ACID

(CALCULATED)

VAPOR PRESSURE 16.9MM HG @ 68 DEGREES F AT 10% ACETIC ACID

(CALCULATED)

SOLUBILITY IN WATER COMPLETE

SPECIFIC GRAVITY 1.01 AT 10% ACETIC ACID, (WATER=1)

MELTING/FREEZING POINT ~26 DEGREES AT 10% ACETIC ACID(CALCULATED)

PH 2.3 AT 10% ACETIC ACID (CALCULATED)

% VOLATILES 100%

## X. STABILITY AND REACTIVITY

STABILITY: STABLE

POLYMERIZATION: PRODUCT WILL NOT UNDERGO

**POLYMERIZATION** 

INCOMPATIBILTY: AVOID CONTACT WITH STRONG

(WITH OTHER MATERIALS) OXIDIZING AGENTS. AVOID CONTACT WITH STRONG

**BASES** 

DECOMPOSITION: DECOMPOSITION WILL NOT OCCUR
IF STORED AND HANDLES PROPERLY

## XI. TOXICOLOGICAL INFORMATION

MISCELLANEOUS: NO TOXIC EFFECTS ARE LIKELY

(OTHER DIRECT IRRITATION THAN EYE IRRITATION FROM CONTACT,

EXPOSURE TO VAPOR) RESPIRATORY FROM EXCESSIVE

#### XII. ECOLOGICAL INFORMATION

BIODEGRADES READILY UNDER AEROBIC AND ANAEROBIC CONDITIONS. NO TENDENCY TO BIOACCUMULATE.

#### XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

TREAT OR DISPOSE OF WASTE MATERIAL AS A WEAK ACID IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL AND NATIONAL REQUIREMENTS.

### XIV. TRANSPORTATION INFORMATION

PRODUCT LABEL: VINEGAR

DOT SHIPPING NAME: NOT APPLICABLE

TECHINCAL SHIPPING NAME: NOT APPLICABLE

DOT HAZARD CLASS: NOT APPLICABLE UN NUMBER: NOT APPLICABLE

PRODUCT RQ (LBS): QUANTITY CONTAINING THE EQUIVALENT OF 5,000 LB OF 100% ACETIC ACID (E.G., 50,000 LBS OF VINEGAR CONTAINING 10% ACETIC ACID)

DOT LABEL: NOT APPLICABLE

## XV. REGULATORY INFORMATION

CANADIAN DISCLOSURE LIST ACETIC ACID (64-19-7)

**CERCLA HAZARDOUS SUBSTANCES** 

ACETIC ACID (64-19-7) – RQ = QUANTITY CONTAINING 5000 LB OF 100% ACETIC ACID (E.G., 50,000 LBS OF 10% ACETIC ACID)

FDA (FOOD AND DRUG ADMINISTRATION):
MATERIAL IS A GRAS (GENERALLY RECOGNIZED AS SAFE) FOOD INGREDIENT

## XVI. OTHER INFORMATION

THE INFORMATION IN THIS MSDS RELATES 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.