

MATERIAL SAFETY DATA SHEET

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

PRODUCT NAME: VINEGAR
SYNONYMS: 40 – 100 GRAIN VINEGAR (ALL TYPES)
CHEMICAL NAME: VINEGAR
CHEMICAL FAMILY: CARBOXYLIC ACID
CAS NUMBER: 8028-52-2

COMPANY IDENTIFICATION

MIZKAN AMERICAS, INC
1661 FEEHANVILLE DRIVE
SUITE 300
MT. PROSPECT, ILLINOIS 60056
(847) 590 –0059
CONTACT NAME: ZIA MIR DIRECTOR OF TECHNICAL SERVICES
(PHONE EXTENSION 1331)
DATE MADE: FEBRUARY 28, 2008

II. COMPOSITION INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>AMOUNT</u>	<u>CAS NUMBER</u>
ACETIC ACID	4.0 – 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

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
RESPIRATORY 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)
ACGIH Threshold Limit value (TLV).....10 ppm acetic acid (25 mg/m3)
(The TLV is the 8hour 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 TLV-
TWA)
Recommended Exposure Limit (REL).....10 ppm acetic acid (25 mg/m3)
(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/m3)
(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 Designation.....0.037-0.15 ppm acetic acid

IX. PHYSICAL AND CHEMICAL PROPERTIES

FORM	LIQUID
COLOR	APPROPRIATE COLOR FOR TYPE OF VINEGAR
ODOR	APPROPRIATE ODOR FOR TYPE OF VINEGAR
BOILING POINT	214 DEGREES F @ 760MM 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
INCOMPATIBILITY: (WITH OTHER MATERIALS)	AVOID CONTACT WITH STRONG 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 THAN EYE IRRITATION FROM DIRECT CONTACT, RESPIRATORY IRRITATION FROM EXCESSIVE EXPOSURE TO VAPOR)
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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
TECHNICAL 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.