

Material Safety Data Sheet

I. Product Identification - VINEGAR 20%

The main ingredient for Vinegar 20% is Kosher, Food Grade Acetic acid, an organic compound with the chemical formula CH_3COOH . It is a colorless liquid and is the main component of vinegar (apart from water; household vinegar is roughly 8% acetic acid by volume), and has a distinctive sour taste and pungent smell. Although it is classified as a weak acid, concentrated acetic acid is corrosive and attacks the skin.

PACKAGED by: MAESTRO GRO
Tel. # 940-648-5400
613 Colorado St
Justin, TX 76247

EMERGENCY ASSISTANCE

For emergency assistance involving chemicals call – CHEMTREC - 800-424-9300

MATERIAL OR COMPONENT

DOT SHIPPING AND HAZARD CLASSIFICATION: This product contains hazardous materials as defined by the OSHA Hazard communication Standard 29 CFR 1910, 1200.

Chemical name & formula: Concentrated Acetic Acid CH_3COOH , Kosher, Food Grade

Trade Name: White Vinegar 20% Solution

CAS No.: 64-19-7

CAS Registry No.: 8028-52-2

Definition: Product made by the acetous fermentation of ethyl alcohol containing 11 to 30% acetic acid (or 110 to 300 grain vinegar.)

III. PHYSICAL DATA

BOILING POINT: 244 degrees F MELTING POINT (Acetic Acid) 62 degrees F

SPECIFIC GRAVITY @ 1.01 - VAPOR PRESSURE (MM Hg): 11MM

VAPOR DENSITY (AIR=1) SOLUBILITY IN H₂O: Complete

%VOLATILES BY VOL: 100% BULK DENSITY

APPEARANCE AND ODOR: Appropriate color and odor for type of vinegar

IV. FIRE & EXPLOSION DATA

FLASH POINT: 40 deg. C. Closed cup (Acetic Acid)

AUTOIGNITION TEMPERATURE: 427 degrees C. (Acetic Acid)

FLAMABLE LIMITS IN AIR : 4.0% - 16% (Acetic Acid)

EXTINGUISHING MEDIA: Water spray, foam CO₂, or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to dilute spills and reduce flammability
UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic gasses and vapors may be released in a fire involving concentrated vinegar.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVER EXPOSURE

INHALATION: Threshold Limit value: 10 PPM

Short Term Exposure Limit: 15 PPM for 15 minutes

Odor Threshold: 0.037 – 0.15 PPM

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

SKIN CONTACT: Contact may cause mild injury and burns from vinegars of 11% acetic acid and greater. Dilute solutions may cause dermatitis in some individuals.

EYE CONTACT: May cause severe burns and permanent corneal injury from concentrated vinegars. May be followed by blindness. High vapor concentrations may result in conjunctivitis.

INGESTION: Concentrated vinegars may cause pain, irritation and burns in mouth, gullet and stomach.

REPRODUCTIVE HAZARDS: Not a reproductive hazard.

EMERGENCY FIRST AID PROCEDURES

EYES: Flush immediately and thoroughly with water.

SKIN: Flush immediately and thoroughly with water.

INHALATION: If vapors are inhaled extensively, exposed person should be removed to fresh air immediately.

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

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the list below.

YES: ___ Federal OSHA ___ NTP ___ IARC ___ TX/OSHA

VII. SPILL, LEAK & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

If vinegar is spilled: dike or contain, ventilate area, dilute with water. May be neutralized with addition of dilute alkaline solutions of soda, ash, or lime.

Do not flush to streams or sewers.

Protect skin and eyes from exposure. Avoid breathing vapor.

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.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection:

As required to prevent exposure to concentrations which exceed the permissible level. 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.

Ventilation Requirements:

Local exhaust recommended.

Mechanical recommended.

Eyes and Face: Safety glasses or plastic face shield required.

Hands, Arms, Body: Rubber or neoprene gloves recommended.

Rubber apron or other protective equipment as required to reduce direct contact.

Other Equipment: Eye wash station, safety shower.

IX. SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

Avoid contact with eyes. Do not ingest.

OTHER HANDLING AND STORAGE REQUIREMENTS

Product may expand slightly in storage causing pressure to build in container. Open container carefully if product appears to be under pressure. Drum lining may occasionally chip and fall to bottom of container after long storage or excessive handling. As a precaution, pour liquid through filter/ strainer to catch small pieces of liner before blending or repackaging. Commercially clean empty containers before reuse.

CAUTION: Do not weld or cut empty containers. VAPORS MAY IGNITE.

All information, recommendations and suggestions herein concerning this product are based upon data believed to be reliable. However it is the user's responsibility to determine the safety, toxicity and suitability for his/her own use of this product. Since the actual use of others is beyond our control, we make no guarantee expressed or implied as to the effects of such use, the results to be obtained, or the safety and toxicity of the product. This information is not to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or government regulations.