

RH # 39452

OLDS PRODUCTS COMPANY

10700 88th Avenue, Pleasant Prairie, Wisconsin 53158-8041
(262) 947-3500
fax (262) 947-3517

MATERIAL SAFETY DATA SHEET**VINEGAR**

Trade Name: White Distilled Vinegar
Chemical Name: Acetic Acid
Chemical Formula: CH₃COOH
Definition: Product made by the acetous fermentation of ethyl alcohol containing 5% acetic acid (50 grain vinegar).

Manufacturer: Olds Products Company
10700 88th Avenue
Kenosha, Wisconsin 53142

Telephone: (262) 947-3500

Inhalation: Threshold Limit Value: 10 PPM
Short Term Exposure Limit: 15 PPM for 15 minutes
Odor Threshold: 1.0 PPM

Inhalation of vapors can cause irritation to respiratory tract.

Skin: Contact may cause mild injury and burns from vinegars of 10% acetic acid and greater. Dilute solutions may cause dermatitis in some sensitive individuals.

Eyes: 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.

EMERGENCY AND FIRST-AID PROCEDURES

- In case of eye or skin contact, flush immediately and thoroughly with water.
- Saturated clothing should be removed and washed.
- If vapors are inhaled extensively, exposed person should be removed to fresh air immediately.
- If swallowed, water should be consumed to dilute.
- Do not induce vomiting.
- Do not give emetics or baking soda.
- Call a physician.

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FIRE AND EXPLOSION HAZARD DATA

<i>Flash Point:</i>	40°C closed cup	(Acetic Acid)
<i>Auto Ignition Temperature:</i>	427°C	(Acetic Acid)
<i>Flammable Limits in Air:</i>	4.0% - 16%	(Acetic Acid)

Fire Extinguishing Agents Recommended:

Water spray, foam CO₂ or dry chemical. Water may be used to dilute spills and reduce flammability.

Unusual fire and explosion hazards:

Toxic gases and vapors may be released in a fire involving concentrated vinegars.

REACTIVITY DATA

<i>Stability:</i>	(X) Stable	() Unstable
<i>Hazard Polymerization:</i>	(X) Will not occur	() May occur

Incompatibility:

Contact with strong oxidizers may cause fires and will react with strong caustics to cause violent spattering and heat.

Hazardous decomposition products:

May produce carbon monoxide (CO) and/or carbon dioxide (CO₂).

SPILL OR LEAK PROCEDURES

If vinegar is spilled, dike to contain, ventilate area, dilute with water: may be neutralized with addition of soda ash. Do not flush to streams or sewers.

Waste Disposal Methods:

Treatment of 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.

SPECIAL PROTECTION INFORMATION

Respiratory Protection:

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

Ventilation:

Local exhaust recommended.
Mechanical recommended.

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SPECIAL PROTECTION INFORMATION

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.

PHYSICAL DATA

Appearance and Odor: Appropriate color and odor for type of vinegar
pH 2.2 @ 100 grain

Boiling Point: 244°F

Vapor Pressure MM Hg: 11MM

Vapor Density (Air = 1): 2.1

Solubility in Water: Complete

Specific Gravity: 1.01

% Volatiles by Volume: 100%