



Material Safety Data Sheet

Date Issued: August 2003 Reviewed: January 2009

Trade Name: Vinegar

Chemical Name: Acetic Acid

Chemical Formula: CH₃COOH

Definition: Product made by the acetous fermentation of ethyl alcohol containing 40 to 200 Grains (4% to 20 %) of acetic acid.

Manufacturers Name and Address: Woelber Mustard Manufacturing Co.
1966 Commerce Circle
Springfield, Ohio 45504

Phone Number: 1-800-548-2929

Health Hazard Data

Inhalation: Threshold Limit Value: 10 ppm
 Short Term Exposure Limit: 15 ppm/15 min.
 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 100 Grain or stronger. 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, throat, and stomach.

Emergency & First-Aid Procedures

In case of eye or skin contact, flush immediately and thoroughly with water.

Saturated clothing should be removed and washed immediately.

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.

Fire and Explosion Hazard Data

Flash Point: 40 degrees C. closed cup
(Acetic Acid)

Auto Ignition Temp: 427 degrees C.
(Acetic Acid)

Flammable Limits in Air: 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 gasses and vapors may be released in a fire involving concentrated vinegars.

Reactivity Data

Stability:	Hazard Polymerization
(X) Stable	(X) Will not occur
() Unstable	() 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 strong vinegar is spilled, dike to contain, ventilate area, dilute with water: may be neutralized with the addition of soda ash.

DO NOT FLUSH DIRECTLY TO STREAMS OR SEWERS.

Waste Disposal Methods: Treatment or disposal of waste generated by the 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. (For strong vinegars 100 Grain and above)

Special Protection Information

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

Ventilation: Local exhaust recommended.
Mechanical recommended.

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

Hands, Arms, and 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 Degrees F.
Vapor Pressure (MMHg):	11 MM
Vapor Density (Air = 1):	2.1
Solubility in Water:	Complete
Specific Gravity:	1.01
% Volatiles by Volume:	100%

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Woeber Mustard Co. Policy	Revision Date 08/01/2003	Revision Number – 2
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