



**20% VINEGAR
Herbicide for Weed Control**

Material Safety Data Sheet

I. Product Identification

Company Identification: Nature's Wisdom, LLC.
450 Business Park Dr. Ste. 100
Prosper, TX 75078
Telephone: 877-447-3330
972-347-3330
Fax 972-347-3328

24 hour Emergency Telephone Number: For emergency assistance involving pesticides call -
National Pesticide Telecommunications Network 800-858-7378

Chemical Name: Acetic Acid
CAS Number: 64-19-7
Synonyms: Ethanoic Acid
EPA Reg. No. 85208-1-90394

II. Hazard Identification

Color: Colorless to slightly colored
Physical State: Liquid
Odor: Vinegar odor
Signal Word: Danger

Hazards to Humans and Domestic Animals

DANGER - Corrosive - causes irreversible eye damage. Wear goggles or face shield when handling. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling. Wear personal protection equipment when handling and/or applying.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply to roosting or nesting birds, or to flowering plants during times of day when bees are actively foraging.

Other Precautions: Avoid application to reactive metals such as aluminum, tin, iron or items such as fencing or lawn furniture in order to prevent staining, mottling, or otherwise interfering with finished metal surfaces. In case of contact, rinse the sprayed surfaces with water.

III. Composition Information/Ingredient Information

Hazardous Component	Concentration by weight	CAS Number
Acetic Acid (vinegar)	20%	64-19-7
Water	80%	7732-18-5

IV First Aid Measures

Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

V. Firefighting Procedures

Flash Point: 40 deg. C (104° F). Closed cup (Acetic Acid)

Autoignition Temperature: N/A

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: N/A.

NFPA Rating:

Red Diamond
(Flammability)
Code 0

Yellow Diamond
(Reactivity)
Code 0

Blue Diamond
(Health)
Code 1

White Diamond
(Special Warning)
none

VI. Accidental Release Measures

Safeguards (Personnel): Protect Skin and eyes from exposure. Avoid breathing vapor.

Initial Containment: Contain spilled material. Water may be used to dilute. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

Large Spill Procedure: Contain spilled material. Large spills may be neutralized with dilute alkaline solutions of soda ash or lime. Avoid runoff into storm sewers and ditches that lead to waterways. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

Small Spill Procedure: Water may be used to dilute. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

VII. Handling and Storage

HANDLING (PERSONNEL): Avoid breathing vapors. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.

STORAGE PRECAUTIONS: Store in a well ventilated place.

VIII. Exposure controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Local exhaust ventilation may be necessary to control any air contaminants to within their TLV's during the use of this product.

Eye/Face Protection Requirements: Wear safety glasses.

Skin Protection Requirements: When prolonged or frequent repeated contact could occur, use protective clothing impervious to this material. Wear protective gloves to minimize skin contamination.

Respiratory Protection Requirements: 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.

Exposure Guidelines for Acetic Acid:

Recommended Exposure Limit: 10 PPM

Odor Threshold: 0.037-0.15 PPM

Immediately Dangerous to Life or Health (IDLH) Level: 1000 PPM

OSHA TWA: 10 PPM

ACGIH TWA: 10 PPM

OSHA STEL: 15 PPM

Skin Designation: Yes

IX. Physical and Chemical Properties

Form: Liquid

Color: Appropriate color for type of vinegar

Odor: Appropriate odor for type of vinegar

Boiling point: 215°F @ 760 mm Hg and 100 grain

Vapor pressure: 1.4 mm Hg @ 300 grain and 70°F

Vapor density: 2.1 (Air=1)

Solubility in water: Complete

Specific gravity: 1.01 to 1.04 (Water = 1)

Melting/freezing point: Vinegar: approx. 30°F (Acetic Acid 62°F)

pH: 2.2 @ 10% acetic acid

% 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 handled and stored properly. In the case of a fire, oxides of carbon, fumes, and smoke may be produced.

XI. Toxicological Information

CAS# 64-19-7

LD50/LC50:

Inhalation, mouse: LC50 =5620 ppm/1H;

Oral, rat: LD50 = 3310 mg/kg;

Skin, rabbit: LD50 = 1060 mg/kg;<BR.

Carcinogenicity:

CAS# 64-19-7: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: Severe eye, mucous membrane and skin irritant, skin sensitizer.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Other Studies: No data available.

XII. Ecological Information

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply to roosting or nesting birds, or to flowering plants during times of day when bees are actively foraging.

XIII. Disposal Information

Waste Disposal: Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

XIV. Transportation Information

PRODUCT LABEL	Vinegar
DOT SHIPPING NAME	N/A
TECHNICAL SHIPPING NAME	N/A
DOT HAZARD CLASS	N/A
UN NUMBER	N/A
PRODUCT RQ	5000 lb. (acetic acid)
DOT LABEL	N/A

XV. Regulatory Information

Canadian Disclosure List: acetic acid (64-19-7)

FDA (Food and Drug Administration): Material is a GRAS (Generally Recognized as Safe) food ingredient.

CERCLA Hazardous substances: Acetic acid (64-19-7) – RQ 5,000 lb

XVI. Other Information

The information is furnished without warranty, expressed or implied, except that it is accurate to the best of the preparer's knowledge. The data on this sheet are related only to the specific material designated herein. The preparer assumes no legal responsibility