



Safety Data Sheet

Brand: **MAXTITE**

Issue Date: 19-Jun-2024

Revision Date: 19-Jun-2024

Version 01

1. IDENTIFICATION

Product identifier

Product Name MaxTite 99% Vinegar

Other means of identification

SDS # 672109

UN/ID No UN2789

Recommended use of the chemical and restrictions on use

Recommended Use Industrial, Residential, and Laboratory use.

Details of the supplier of the safety data sheet

Supplier Address

Pacific Innovations LLC
129 Seegers Avenue
Elk Grove Village, IL 60007
(708) 320-2088

Emergency telephone number

Emergency Telephone INFOTRAC 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear liquid

Physical state Liquid

Odor Characteristic odor of vinegar

Classification

Flammable Liquids	Category 3
Skin corrosion	Category 1A
Serious eye damage	Category 1

Signal Word

Danger

Hazard statements

Flammable liquid and vapor.
Causes severe skin burns and eye damage.



Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Keep container tightly closed.
Keep only in original packaging.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilation/lighting.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing dust/fume/gas/mist/vapor/spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER/ doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/ doctor
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Acetic acid	64-19-7	99

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

General Advice	Move out of dangerous area. Immediately call a poison center or doctor/physician. Provide this SDS to medical personnel for treatment. Do not leave the victim unattended.
Eye Contact	IF IN EYES: Immediately flush eyes thoroughly with plenty of water and continue flushing for at least 15 minutes. Remove contact lenses. SEEK MEDICAL ATTENTION IMMEDIATELY.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists after washing, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated leather (gloves, shoes, belts, wallets, etc.). Seek medical attention if tissue appears damaged or if pain or irritation

persists.

Inhalation

IF INHALED: Remove victim to fresh air at once. If breathing has stopped, perform artificial respiration. When breathing is difficult, properly trained personnel may assist the affected person by administering oxygen. Keep the affected person warm and at rest. Get medical attention immediately. Do not leave the victim unattended. If breathing is difficult, give oxygen. If unconscious, place in recovery position and seek medical advice. In the event of unconsciousness, apnea or cardiac arrest, apply cardiopulmonary resuscitation. SEEK MEDICAL ATTENTION IMMEDIATELY!

Ingestion

IF SWALLOWED: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Drink water (two glasses at most). Do not attempt to neutralize acid with weak bases or antacids because the chemical reaction may extend the corrosive injury. GET MEDICAL ATTENTION IMMEDIATELY!

Most important symptoms and effects, both acute and delayed**Symptoms**

May cause burns of the mouth, throat, esophagus, and stomach. Signs and symptoms may include pain, nausea, vomiting, and diarrhea, dizziness, drowsiness, faintness, weakness, collapse and coma.
Damage to skin and eyes.
Bronchopneumonia, pulmonary edema, and reactive airway dysfunction syndrome (RADS) may follow acute inhalation overexposure or aspiration.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

For ocular exposures, continuous irrigation with tap water or normal saline should continue until the eye fluid pH is neutral.

Following ingestion, neutralization therapy or drinking large volumes of water or milk is not recommended because of concerns related to exothermic neutralization reactions and vomiting with possible aspiration and re-exposure of the esophagus to acid.

There is no specific antidote available.

Assess airway if inhaled and/or ingested.

If ingested, cardiac and respiratory status must be continuously monitored.

Assess extent and severity of tissue injury by appropriate diagnostic studies and procedures.

Vigorous anti-inflammatory/steroid treatment may be required at first evidence of pulmonary/upper airway edema.

Prolonged observation may be indicated.

Treat symptomatically.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam, carbon dioxide (CO₂), Dry chemical

Unsuitable Extinguishing Media High volume water jet

Specific Hazards Arising from the Chemical

Vapors are heavier than air and may spread along floors

Fire may produce irritating, corrosive, and/or toxic gases.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapors possible in the event of fire.

Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if it can be done without risk.

When fighting a fire, notify environmental authorities if liquid enters sewers or public waters.

Hazardous combustion products Carbon oxides. Corrosive vapors.

Protective equipment and precautions for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Wear protective gloves/protective clothing and eye/face protection. Evacuate unnecessary personnel.
For Emergency Responders	Follow all firefighting procedures in Section 5. Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions	Prevent from entering drains. Prevent further leakage or spillage if safe to do so. See Section 12, Ecological Information. Notify authorities if liquid enters sewers or public waters.
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Methods and material for containment and cleaning up

Methods for Containment and Clean-up	Neutralize with chalk, alkali solution or ammonia. Contain spillage, then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local and national regulations.
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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Avoid formation of aerosol. Do not breathe vapors. Avoid contact with skin and eyes. For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as contents may be under pressure.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition — No smoking. Protect from direct sunlight.
Incompatible Materials	Strong oxidizing agents. Strong bases. Metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic acid 64-19-7	STEL: 15 ppm TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³

Appropriate engineering controls

Engineering Controls

Safety shower, eye wash fountain, and washing facilities should be readily available. Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min

Splash contact
Material: Latex gloves
Minimum layer thickness: 0.6 mm
Break through time: 30 min

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. Wear appropriate mask. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Characteristic odor of vinegar
Appearance	Clear liquid	Odor Threshold	0.21 - 1 ppm
Color	Colorless		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	< 2		
Melting point / freezing point	16.5 C		
Boiling point / boiling range	118 C		
Flash point	39 C; 760 mmHg; cc		
Evaporation Rate	No data available		
Flammability (Solid, Gas)	Liquid-Not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	4 % vol		
Lower flammability or explosive limits	19.9 % vol		
Vapor Pressure	0.156 mmHg		
Vapor Density	2.1 (acetic acid)		
Relative Density	1.07 g/cm ³ at (20C / 68F)		
Water Solubility	Soluble in water		
Solubility in other solvents	No data available		
Partition Coefficient	No data available		
Autoignition temperature	463 C		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic Viscosity	No data available		
Explosive Properties	Not an explosive		
Oxidizing Properties	Not an oxidizer		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

This product reacts violently with bases, spattering and liberating heat. Risk of explosion in contact with strong oxidizing agents. Exothermic reaction with metals.

Conditions to Avoid

Heat, flame, sparks, and other ignition sources. Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents. Strong bases. Metals.

Hazardous decomposition products

Corrosive gases/vapor. Carbon oxides.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Eye Contact Causes serious eye damage.

Skin Contact Causes severe skin burns.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetic acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Not classified. No adverse effect observed.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Based on acute aquatic toxicity values, not classified.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Acetic acid 64-19-7		75: 96 h <i>Lepomis macrochirus</i> 75 mg/L LC50 static 79: 96 h <i>Pimephales promelas</i> 88 mg/L LC50 static	65: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence/Degradability

Test type, aerobic
Biodegradation 96%
Exposure time 20 d
Readily biodegradable

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Acetic acid 64-19-7	-0.31

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Acetic acid 64-19-7	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN2789
Proper Shipping Name Acetic acid, glacial
Hazard class 8 (3)
Packing Group II

IATA

UN number UN2789
Proper Shipping Name Acetic acid, glacial
Transport hazard class(es) 8 (3)
Packing Group II

IMDG

UN number UN2789
Proper Shipping Name Acetic acid, glacial
Transport hazard class(es) 8 (3)
Packing Group II

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Acetic acid 64-19-7	X	ACTIVE	X	X	X	X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetic acid 64-19-7	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313

This product contains no known chemicals regulated under SARA 313

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic acid 64-19-7	5000 lb			X

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island
Acetic acid 64-19-7	X	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards****HMIS**

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Health Hazards**Flammability****Physical hazards**

Not determined

Not determined

Not determined

Not determined

Personal Protection

Not determined

Issue Date: 19-Jun-2024**Revision Date:** 19-Jun-2024**Revision Note:** New format**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet