

**1. Product And Company Identification**

**Product Name:** 5% to 30% White Distilled Vinegar

**Manufacturer:** Ecoclean Solutions  
570 Oak St  
Copiague NY 11726  
www.factorydirectchemicals.com

**Telephone Number:** 888.565.7069

**Date of Preparation:** 2/16/18

**Product Use:** Home and Garden

**Restriction on Use:** Not for food use unless specified on product label.

**2. Hazards Identification**

**Classification:**

Physical	Health
Not Hazardous	Eye Irritation Category 2A Skin Irritant Category 2

**Warning!**



**Hazard statement(s)**

**Causes skin irritation.**  
**Causes serious eye irritation.**

**Precautionary statement(s)**

Wash hands thoroughly after handling.  
Wear protective gloves, protective clothing and eye protection.

**Precautionary statement(s)**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

**3. Composition/Information on Ingredients**

Component	CAS No.	Amount
Acetic Acid	64-19-7	5 to 30%
Water	7732-18-5	70 to 95%

The specific identity and/or exact percentage has been withheld as a trade secret.

**4. First Aid Measures**

**Inhalation:** Remove to fresh air. If person is not breathing, call 911 or an ambulance. Then give artificial respiration, preferably mouth-to-mouth, if possible. If irritation persists, get medical attention.

**Skin Contact:** Immediately flush skin with water for several minutes after contact. Remove any contaminated clothing and wash it before reuse. If irritation persists, get medical attention.

# MATERIAL SAFETY DATA SHEET

## White Vinegar

**Eye Contact:** Flush eyes with water while lifting the upper and lower lids for at least 15-20 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes; then continue flushing. Get medical attention if irritation persists.

**Ingestion:** If the person is alert, have them rinse their mouth with water and give 1 glass of water to sip. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Immediately call a doctor or poison center.

**Most important symptoms/effects, acute and delayed:** Causes serious eye irritation. Causes skin irritation. May be harmful if swallowed. Inhalation of vapors may cause mucous membrane and upper respiratory irritation.

**Indication of immediate medical attention and special treatment, if necessary:** If ingestion or eye contact occurs, get medical attention.

### 5. Firefighting Measures

**Suitable (and unsuitable) extinguishing media:** Use any media appropriate for the surrounding fire.

**Specific hazards arising from the chemical:** Not flammable or combustible. Combustion may produce oxides of carbon.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

### 6: Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Wear personal protective as described in Section 8.

**Environmental hazards: Avoid release into the environment.** Report spill as required by local and federal regulations.

**Methods and materials for containment and cleaning up:** Dilute spilled liquid with water. Large spills can be neutralized with dilute solutions of soda ash or lime. Collect with an absorbent material and collect into a suitable container for disposal.

### 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with eye and skin. Avoid breathing vapors. Wear protective clothing when handling. Wash thoroughly after handling. Use with adequate ventilation. Wash contaminated clothing before reuse. Discard contaminated leather items like shoes and belts that cannot be decontaminated. Keep out of reach of children and pets. DO NOT mix with other household cleaning agents.

**Conditions for safe storage, including any incompatibilities:** Keep from freezing. Store only in original tightly sealed container and out of the reach of children.

### 8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Acetic Acid	10 ppm TWA OSHA PEL 10 ppm TWA, 15 ppm STEL ACGIH TLV
Water	None Established

**Ventilation:** Use outdoors or with adequate ventilation to maintain exposure levels below the exposure limits above.

**Respiratory Protection:** If the exposure limits are exceeded, wear an approved respirator for organic vapors. Follow OSHA regulations and good industrial hygiene practice in the selection and use of respirators.

# MATERIAL SAFETY DATA SHEET

## White Vinegar

**Gloves:** Neoprene or other impervious gloves are recommended.

**Eye Protection:** Safety goggles recommended.

**Other Protective Equipment/Clothing:** Wear protective clothing as needed to avoid skin contact.

### 9. Physical and Chemical Properties

**Appearance:** Liquid with vinegar color.

**Odor:** Vinegar odor

<b>Odor threshold:</b> 0.21 – 1 ppm (acetic acid)	<b>pH:</b> 2.1 to 2.8
<b>Melting point/freezing point:</b> ~30°F	<b>Boiling point/ Boiling Range:</b> 215°F
<b>Flash point:</b> None	<b>Evaporation rate:</b> Not determined
<b>Flammability (solid, gas):</b> Not applicable	
<b>Flammable limits: LEL:</b> 4% (acetic acid)	<b>UEL:</b> N/A
<b>Vapor pressure:</b> 11 mmHg @ 20°C (acetic acid)	<b>Vapor density:</b> 2.1 (acetic acid)
<b>Relative density:</b> 1.025	<b>Solubility in Water:</b> Completely soluble
<b>Partition coefficient: n-octanol/water:</b> -0.17 (acetic acid)	<b>Auto-ignition temperature:</b> Not determined
<b>Decomposition temperature:</b> Not determined	<b>Viscosity:</b> Not determined

### 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** Reacts with bases generating heat.

**Conditions to avoid:** Avoid freezing and excessive heat.

**Hazardous decomposition products:** Thermal decomposition may produce oxides of carbon.

### 11. Toxicological Information

**Inhalation:** May cause irritation to the nose, throat and upper respiratory tract. High concentrations of acetic acid vapor may cause pulmonary edema.

**Skin Contact:** Causes skin irritation and possible burns on prolonged contact.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** May be harmful if swallowed. Causes mouth, throat, and gastrointestinal irritation.

**Chronic Hazards:** None known.

**Carcinogen:** None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

**Mutagenicity:** None of the components have been shown to cause germ cell mutagenicity.

**Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

#### **Acute Toxicity Values:**

Acetic Acid: Oral Rat LD50: 3310 mg/kg; LD50 skin rabbit 1060 mg/kg; LC50 inhalation rat 11.4 mg/L/4 hr.

### 12. Ecological Information

#### **Ecotoxicity:**

Acetic Acid

LC50: Fathead minnow (*Pimephales promelas*) 79 mg/L/96 hr

EC50: *Daphnia magna* 6000 mg/L/24 hr

**Persistence and degradability:** Readily biodegradable.

**Bioaccumulative potential:** Not bioaccumulative

**Mobility in soil:** No data available

**MATERIAL SAFETY DATA SHEET**  
**White Vinegar**

**Other adverse effects:** None known.

**13. Disposal Considerations**

Dispose of in accordance with all local, state/provincial and federal regulations.

**14. Transport Information**

	<b>UN Number</b>	<b>Proper shipping name</b>	<b>Hazard Class</b>	<b>Packing Group</b>	<b>Environmental Hazard</b>
<b>DOT</b>	None	Not Regulated			

Note: Similar products have been tested and have been determined to not be corrosive as defined in the DOT regulations.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

**15. Regulatory Information**

**Safety, health, and environmental regulations specific for the product in question.**

**CERCLA Section 103:** This product has an RQ of 25,000 based on the RQ of acetic acid of 5000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute Health.

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

**California Proposition 65:** This product contains the following substances known to the State of California to cause cancer and/or reproductive harm (birth defects): None

**16. Other Information**

NFPA Rating (NFPA 704):      Health: 2      Fire: 0      Instability: 0  
HMIS Rating:                      Health: 2      Fire: 0      Physical Hazard: 0

**SDS Revision History:** Converted to GHS format – All sections revised.

**Date of preparation:** 02/16/2018

**Date of last revision:** 03/26/2018