Material Safety Data Sheet (MSDS)
Issue/Revision Date: 3 February 2014

Section 1. Product and Company Information

Chemical Name: Dilute acetic acid, 4 to 10% by volume
Synonym(s): None
Tradename(s): Distilled white vinegar, Full Disclosure Extraction Solution #2
Catalog No.: 550-021, also component of 550-001 and 550-002
Company: SKC Inc.
Address: 863 Valley View Road
         Eighty Four, PA 15330 U.S.A.
Phone: 724-941-9701
Fax: 724-941-1369
Toll-free (U.S.): 800-752-8472
Email: skctech@skcinc.com
Web: www.skcinc.com

Section 2. Composition/Information on Ingredient(s)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Formula</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH® TLV®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid, 4 to 10% by volume</td>
<td>CH₂COOH</td>
<td>8028-52-2</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Section 3. Hazards Identification

LD50 LC50 Mixture: None specified by manufacturer

Route of Entry Indicators
- Eye Contact: Yes
- Inhalation: Yes
- Skin Contact: Yes
- Ingestion: Yes

Carcinogenicity Indicators
- NTP: No
- IARC: No
- OSHA: No

Effects of Exposure
- Inhalation: Prolonged inhalation of vapors can cause irritation to respiratory tract.
- Eyes: Will cause eye irritation (smarting and reddening of the eye)

Explanation of Carcinogenicity: Not relevant

Signs and Symptoms of Overexposure: See Effects of Exposure.

Medical Conditions Aggravated by Exposure: None specified by manufacturer
Section 4. First Aid Measures

Inhalation
Remove to fresh air. Support breathing (give oxygen/artificial respiration).

Skin
Flush with copious amounts of water. Call physician.

Eye
Flush immediately and thoroughly with water for at least 15 to 20 minutes (timed by a clock). Call a physician.

Ingestion
Large amounts of water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Call a physician.

Section 5. Fire Fighting Measures

Flash Point: N/A
Auto-ignition Temperature: N/A
Flammability: N/A

Extinguishing Media: Media suitable for surrounding fire
Firefighting Procedures: Use NIOSH/MSHA-approved SCBA and full protective equipment.
Unusual Fire Explosion Hazard: None specified by manufacturer

Section 6. Accidental Release Measures

Spill Release Procedures: If spilled, water may be used to dilute.
Neutralizing Agent: None specified by manufacturer

Section 7. Handling and Storage

Handling and Storage
Precautions: None specified by manufacturer
Other Precautions: None specified by manufacturer

Section 8. Exposure Controls/Personal Protective Equipment (PPE)

Respiratory Protection: NIOSH/MSHA-approved respirator appropriate for exposure of concern
Ventilation: General
Protective Gloves: None specified by manufacturer
Eye Protection: Recommended
Other Protective Equipment: None specified by manufacturer
Work Hygienic Practices: None specified by manufacturer
Supplemental Safety and Health: PH: 2.2 @ 100 grain

Section 9. Physical/Chemical Properties

Appearance: Clear liquid
Odor: Vinegar
Odor Threshold: 1.0 ppm

Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>224 F (106 C)</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>11 mm</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>2.1 (Air=1)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.01</td>
</tr>
<tr>
<td>PH</td>
<td>2.2 @ 100 grain</td>
</tr>
<tr>
<td>Evaporation Rate/Ref</td>
<td>Not Known</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
</tbody>
</table>

Note: No further properties were reported by chemical supplier.
Section 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability Indicator:</td>
<td>Yes</td>
</tr>
<tr>
<td>Stability Condition to Avoid:</td>
<td>None specified by manufacturer</td>
</tr>
<tr>
<td>Materials to Avoid:</td>
<td>Strong oxidizing agents, strong bases</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>None specified by manufacturer</td>
</tr>
<tr>
<td>Hazardous Polymerization Indicator:</td>
<td>No</td>
</tr>
<tr>
<td>Conditions to Avoid Polymerization:</td>
<td>Not relevant</td>
</tr>
</tbody>
</table>

Section 11. Toxicological Information

No data available from chemical supplier

Section 12. Ecological Information

No data available from chemical supplier

Section 13. Disposal Considerations

Disposal must be in accordance with federal, state, and local regulations.

Section 14. Transport Information

No data available from chemical supplier

Section 15. Regulatory Information

No data available from chemical supplier

Section 16. Other Information

Disclaimer
For approved uses only

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. SKC Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.