Section 1  Product Description

Product Name: Acetic Acid, 7.5M
Recommended Use: Science education applications
Synonyms: Ethanoic Acid, Vinegar
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150

Chemical Information:
800-227-1150 (8am-5pm (ET) M-F)
Chemtrec:
800-424-9300 (Transportation Spill Response 24 hours)

Section 2  Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

GHS Classification:
Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 3

Section 3  Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>55</td>
</tr>
<tr>
<td>Acetic Acid, Glacial</td>
<td>64-19-7</td>
<td>45</td>
</tr>
</tbody>
</table>

Section 4  First Aid Measures

Emergency and First Aid Procedures

Ihalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5  Firefighting Procedures

Extinguishing Media: Water spray. Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6  Spill or Leak Procedures
Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7  Handling and Storage

Handling:  Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

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

Storage Code:  White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8  Protection Information

Control Parameters

Engineering Measures:  Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:  NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter

Eye Protection:  Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection:  Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:  Nitrile - Extra Thick (8 mm)

Section 9  Physical Data

Formula:  See Section 3
Molecular Weight:  60.05
Appearance:  Colorless Liquid
Odor:  Strong Vinegar
Odor Threshold:  No data available
pH:  1.6
Melting Point:  Estimated 0 C
Boiling Point:  No data available
Flash Point:  No data available
Flammable Limits in Air:  No data available

Vapor Pressure:  No data available
Evaporation Rate (BuAc=1):  No data available
Vapor Density (Air=1):  No data available
Specific Gravity:  No data available
Solubility in Water:  Soluble
Log Pow (calculated):  -0.31 (Acetic Acid)
Autoignition Temperature:  No data available
Decomposition Temperature:  No data available
Viscosity:  No data available
Percent Volatile by Volume:  No data available

Section 10  Reactivity Data

Reactivity:  Not generally reactive under normal conditions.
Chemical Stability:  Stable under normal conditions.
Conditions to Avoid:  Elevated temperatures
Incompatible Materials:  Water-reactive materials, Acetic anhydride, Acetaldehydes, Caustics (bases), Oxidizing materials, Halogens, Carbonates

Hazardous Polymerization:  May trigger violent polymerization in other materials. See chemical incompatibilities.

Section 11  Toxicity Data
Safety Data Sheet

Routes of Entry: Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Impaired Kidney Function, Respiratory Irritation, Lachrymation

Delayed Effects: No data available

Acute Toxicity:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Oral LD50 Rat 90000 mg/kg</td>
<td>INHALATION LC50 MAMMAL 11.4 GM/M3</td>
<td></td>
</tr>
<tr>
<td>Acetic Acid, Glacial</td>
<td>64-19-7</td>
<td></td>
<td></td>
<td>INHALATION LC50 Mouse 5620 ppm</td>
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</table>

Carcinogenicity:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Chronic Effects:

- Mutagenicity: No evidence of a mutagenic effect.
- Teratogenicity: No evidence of a teratogenic effect (birth defect).
- Sensitization: No evidence of a sensitization effect.
- Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

- Acute: No information available
- Chronic: Teeth

Section 12  Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Biodegradation

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Eco Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>No data available</td>
</tr>
<tr>
<td>Acetic Acid, Glacial</td>
<td>64-19-7</td>
<td>Aquatic LC50 (96h) Fathead Minnow 79 MG/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic EC50 (24h) Daphnia 47 MG/L</td>
</tr>
</tbody>
</table>

Section 13  Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14  Transport Information

Ground - DOT Proper Shipping Name: UN2790 Acetic Acid Solution Class 8 P.G. III

Air - IATA Proper Shipping Name: UN2790 Acetic Acid Solution Class 8 P.G. III

Section 15  Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>§ 313 Name</th>
<th>§ 304 RQ</th>
<th>CERCLA RQ</th>
<th>§ 302 TPQ</th>
<th>CAA 112(2) TQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid, 7.5M</td>
<td></td>
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</tr>
</tbody>
</table>
The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service Number</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response, Compensation, and Liability Act</td>
</tr>
<tr>
<td>DOT</td>
<td>U.S. Department of Transportation</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>N/A</td>
<td>Not Available</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>ppm</td>
<td>Parts per million</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>IDLH</td>
<td>Immediately dangerous to life and health</td>
</tr>
</tbody>
</table>

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**Section 16 Additional Information**

Revised: 08/21/2018  |  Replaces: 06/15/2018  |  Printed: 08-25-2018

Acetic Acid, Glacial  |  64-19-7  |  No  |  5000 lb  |  RQ  |  5000 lb final  |  No  |  No

California Prop 65:  |  No California Proposition 65 ingredients