VINEGAR CAROLINA BIOLOGICAL Revised: 16/07/04 Replaces: 09/05/00 Printed: 20/05/08

## **1. PRODUCT DESCRIPTION**

Product Name: Vinegar Product Code(s): 89-8110, 84-0935, 84-0975, 95-7860, 97-2901, 97-2923 84-0477, 95-8005, 84-0486, 84-0487, 84-0880, 84-0884 95-8002 Size: 7 mL, 500 ml Chemical Name: Acetic Acid CAS Number: 64-19-7 Formula: CH3COOH Ethanoic Acid Synonyms: Carolina Biological Supply Company Distributor: 2700 York Road Burlington, NC 27215 Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Acetic Acid (CAS#64-19-7) 4-6% TLV and PEL units: ACGIH-TLV 10ppm(TWA), STEL 15ppm OSHA-PEL 10ppm(TWA)

### 3. HAZARD IDENTIFICATION

Emergency Overview: Do not ingest. Avoid skin and eye contact. Avoid exposure to vapors or mists. Potential Health Effects: Eyes: May cause irritation. Skin: May cause irritation. Ingestion: May cause gastrointestinal discomfort. Inhalation: May cause irritation to respiratory tract.

### **4. FIRST AID MEASURES**

Emergency and First Aid Procedures: Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists. Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists. Ingestion - Do not induce vomiting. If swallowed, if conscious, give plenty of water immediately and call a physician or poison control center. Never give anything by mouth to an unconscious person. Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention. 5. FIREFIGHTING PROCEDURES Flash Point(Method Used):109F (cc) NFPA Rating: Health: 2 Fire: 2

Reactivity: 1 Extinguisher Media: Use dry chemical, CO2 or appropriate foam. Flammable Limits in Air % by Volume: 5.4%LEL 16.0%UEL Autoignition Temperature: No data available Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved

Page 1 of 4

VINEGAR CAROLINA BIOLOGICAL Revised: 16/07/04 Replaces: 09/05/00 Printed: 20/05/08

self-contained breathing apparatus. Unusual Fire and Explosion Hazards: No data available

#### 6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

#### 7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store above 62F, away from direct heat, ignition sources and oxidizers. Other Precautions: Do not reuse container. Residue may make empty containers dangerous.

#### 8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Preferred Mechanical(General): Acceptable Special: No Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. Eye Protection: Splash proof chemical safety goggles should be worn. Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety

shower.

## 9. PHYSICAL DATA

Molecular Weight: 60.05 Melting Point: 16.7C Boiling Point: 118.1C Vapor Pressure: 11.4 at 20C Vapor Density(Air=1): 2.07 Specific Gravity(H2O=1): 1.049 Percent Volatile by Volume: 100 Evaporation Rate(BuAc=1): 0.97 Solubility in Water: Miscible Appearance and Odor: Clear colorless liquid with pungent odor.

# **10. REACTIVITY DATA**

Stability: Stable Conditions to Avoid: Heat, ignition sources, metals Incompatibility(Materials to Avoid): Oxidizers, strong alkalies, metals, amines, cyanides, sulfides, chromic acid, nitric acid, hydrogen peroxide, carbonates. Hazardous Decomposition Products: COx Hazardous Polymerization: Will not occur

## **<u>11. TOXICITY DATA</u>**

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Toxicity Data: ihl-mus LC50: 5620 ppm/1H orl-rat LD50: 3530 mg/kg skin-rbt LD50: 1060 mg/kg Effects of Overexposure: Acute: See section 3 Chronic: Mutation and reproductive effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA. Conditions Aggravated by Overexposure: Respiratory conditions Target Organs: Eyes, skin, and respiratory tract. Primary Route(s) of Entry: Inhalation, ingestion or skin contact. 12. ECOLOGICAL DATA EPA Waste Numbers: D002 D001 **13. DISPOSAL INFORMATION** Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. **14. TRANSPORT INFORMATION** DOT Proper Shipping Name: Non-regulated **15. REGULATORY INFORMATION** EPA TSCA Status: On the TSCA Inventory List. Hazard Category for SARA Section 311/312 Reporting: Acute SARA EHS Section 302 TPQ(lbs.)No SARA Section 313 Chemicals Name List: Chemical Category: No No CERCLA Section 103 RQ(lbs.): 5,000 RCRA Section 261.33: No **16. ADDITIONAL INFORMATION** 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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material. Glossary ACGIH.....American Conference of Governmental Industrial Hygienists CAS Number..Chemical Abstracts Service Number CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act DOT.....U.S. Department of Transportation IARC.....International Agency of Research on Cancer mppcf.....million particles per cubic foot N/A....Not Available NTP.....National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL.....Permissible Exposure Limit

ppm.....parts per million

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RCRA.....Resource Conservation and Recovery Act SARA....Superfund Amendments and Reauthorization Act TLV.....Threshold Limit Value TSCA.....Toxic Substances Control Act