Material Safety Data Sheet

Vinegar

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Section 1 - Product Description

Product Name: Vinegar
Product Code(s): 84-0477, 84-0486, 84-0487, 84-0880, 84-0935, 84-0975, 89-8108, 95-8005, 84-0884, 95-8002, 95-7860, 97-2138, 97-2923, 11-3183, 89-8108, 89-8110, 89-8112, 97-1851, 97-1852, 97-2061, 97-2138, 97-2765, C11037, C11146, C11274, C11386, C45331, C55130, C55131, C55134, C60700, C70742, C71041, C71449, C71947, C898110

Size: 7 ml, 30 ml, 60 ml, 120 ml, 200 ml, 473 ml, 500 ml, 946 ml, 3800 ml

Chemical Name: Acetic Acid
CAS Number: 64-19-7
Formula: CH₃COOH
Synonyms: Ethanoic Acid
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

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

Section 2 - Hazard Identification

Emergency Overview: Harmful if swallowed.

Potential Health Effects:

Eyes: May cause irritation.
Skin: Irritating to skin.
Ingestion: Harmful if swallowed.
Inhalation: Irritating to respiratory system.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Acetic Acid (CAS#64-19-7) <6%

TLV units: ACGIH-TLV: 10 ppm (TWA), 15 ppm (STEL)
PEL units: OSHA-PEL: 10 ppm (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Section 5 - Firefighting Procedures

Flash Point (Method Used): 109 °F
NFPA Rating:
  Health: 1
  Fire: 0
  Reactivity: 0
Extinguisher Media: Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: N/A
Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: N/A

Section 6 - Spill or Leak Procedures

Steps to Take 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.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place. Suitable for any general chemical storage.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. 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.

Section 9 - Physical Data

Molecular Weight: 60.05 g/mol
Boiling Point: approx 100°C (212°F)
Vapor Density(Air=1): 2.07
Percent Volatile by Volume: 100%
Solubility in Water: Soluble
Melting Point: approx. 0°C (32°F)
Vapor Pressure: 11.4 at 20 °C
Specific Gravity (H2O=1): 1.049
Evaporation Rate (BuAc=1): 0.97
Appearance and Odor: Clear, colorless liquid with pungent odor.

Section 10 - Reactivity Data

Stability: Stable
Conditions to Avoid: Heat and sources of ignition.
Hazardous Decomposition Products: COx.
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data
Toxicity Data:  ihl-mus LC50: 5620 ppm/1H  
orl-rat LD50: 3530 mg/kg  

Effects of Overexposure:  
Acute: See Section 2  
Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Mutation data cited. Reproductive data cited.  

Conditions Aggravated by Overexposure:  Respiratory disorders,  
Target Organs:  Respiratory system, Skin, Eyes,  
Primary Route(s) of Entry:  Inhalation, Ingestion, and Skin contact.  

Section 12 - Ecological Data  
EPA Waste Numbers:  D002  

Section 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.  

Section 14 - Transport Information  
DOT Proper Shipping Name:  N/A  

Section 15 - Regulatory Information  
EPA TSCA Status:  On TSCA Inventory  
Hazard Category for SARA Section 311/312 Reporting:  Acute  

Name List:  Chemical Category:  
Vinegar - No  Vinegar - No  

CERCLA Section 103 RQ(lb.):  Vinegar - 5000 lbs  
RCRA Section 261.33:  Vinegar - No  

Section 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 Services Abstract Number  
CERCLA  Comprehensive Environmental Response, Compensation, and Liability Act  
DOT  U.S. Department of Transportation  
IARC  International Agency of Research on Cancer  
N/A  Not Available  
NTP  National Toxicology Program  
OSHA  Occupational Safety and Health Administration  
PEL  Permissible Exposure Limit  
ppm  Parts per million  
RCRA  Resource Conservation and Recovery Act  
SARA  Superfund Amendments and Reauthorization Act  
TLV  Threshold Limit Value  
TSCA  Toxic Substances Control Act