#### Acetic Acid, 1M



### Section 1 Product Description

Product Name: Acetic Acid, 1M

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;





Causes skin irritation. Causes serious eye irritation.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2

#### Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 94

 Acetic Acid, Glacial
 64-19-7
 6

### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: 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 advice/attention.

**Skin Contact:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

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

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Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

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:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Green - general chemical storage

#### Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Acetic Acid, Glacial
 10 ppm TWA
 15 ppm STEL
 10 ppm TWA; 25
 N/A

 mg/m3 TWA

**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): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s): 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

#### Section 9

### Physical Data

Formula: See Section 3
Molecular Weight: 60.05
Appearance: Colorless Liquid
Odor: Moderate Strong Vinegar
Odor Threshold: No data available

**pH:** 2.4

Melting Point: Estimated 0 C
Boiling Point: Estimated 100 C
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: Temperatures above the high flash point of this combustible material in combination with

sparks, open flames, or other sources of ignition.

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Incompatible Materials: Water-reactive materials, Acetic anhydride, Acetaldehydes, Caustics (bases), Oxidizing

materials, Halogens, Carbonates

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

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

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

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Acetic Acid, Glacial 64-19-7 INHALATION LC50 MAMMAL

11.4 GM/M3 INHALATION LC50 Mouse 5620

ppm

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAAcetic Acid64-19-7Not listedNot listedNot listed

**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:** This material is not expected to be harmful to the ecology.

**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

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Acetic Acid, Glacial 64-19-7 Aquatic LC50 (96h) Fathead Minnow 79 MG/L

Aquatic EC50 (24h) Daphnia 47 MG/L

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): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15 Regulatory Information

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

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Acetic Acid, Glacial	64-19-7	No	5000 lb RQ	5000 lb final RQ (2270 kg)	No	No

### Section 16 Additional Information

Revised: 09/09/2015 Replaces: 06/17/2015 Printed: 10-29-2015

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.

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

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