

## Material Safety Data Sheet



# Acetic Acid, Glacial, 17.4M

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**CAROLINA**  
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### Section 1 - Product Description

**Product Name:** Acetic Acid, Glacial

**Product Code(s):** 84-1288, 84-1289, 84-1290, 84-1291, 84-1292, 84-1293, 84-1135, 17-4100, 84-0490, 84-0480, 84-0996, 84-1333, C70503, C70035, C70723, C91160, C71274

**Size:** 15 ml, 100 ml, 500 ml, 1 L, 2.5 L

**Chemical Name:** Acetic Acid Glacial

**CAS Number:** 64-19-7

**Formula:** CH<sub>3</sub>COOH

**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:** Causes severe burns. Irritating to eyes and skin.

**Potential Health Effects:**

**Eyes:** Causes severe burns and eye damage upon direct contact. Vapor is irritating.

**Skin:** May cause severe irritation or chemical burns.

**Ingestion:** May severely irritate or damage digestive tract.

**Inhalation:** May severely irritate or damage mucous membranes and respiratory tract.

### Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** Acetic Acid (CAS# 64-19-7), 100%

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

**PEL units:** OSHA-PEL 10 ppm (TWA); 25 mg/m<sup>3</sup> (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, 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):** 104 F (39 C) (cc)

**NFPA Rating:**

**Health:** 3

**Fire:** 2

**Reactivity:** 0

**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.

**Flammable Limits in Air % by Volume:** LEL 4% UEL 19.9%

**Autoignition Temperature:** 463 C

**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:** Avoid direct sunlight and heat.

Avoid excess heat.

Avoid creating and inhaling dust.

Keep at temperature not exceeding ... OC (to be specified by the manufacturer).

Keep away from oxidizing materials and strong acids.

## 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:** Yes

**Mechanical(General):** Yes

**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:** 44.05

**Boiling Point:** 20.1 C

**Vapor Density(Air=1):** 1.52

**Percent Volatile by Volume:**

**Solubility in Water:** Soluble

**Melting Point:** -123.37 C

**Vapor Pressure:** 1006 hPa at 20 C

**Specific Gravity (H2O=1):** 0.7834 at 18 C

**Evaporation Rate (BuAc=1):** 49.1

**Appearance and Odor:** Clear, colorless liquid with pungent odor.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

Moisture; Product is hygroscopic.

**Incompatibility (Materials to Avoid):** Oxidizers, Alkalis, Metals, Amines, Cyanides, Sulfides, Acids, Peroxides, Carbonates,

**Hazardous Decomposition Products:** COx,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** ihl-mus LC50: 5620 ppm/1H

orl-rat LD50: 3310 mg/kg

skin-rbt LD50: 1060 mg/kg

**Effects of Overexposure:**

**Acute:** See Section 2

**Chronic:** Mutation data cited. Reproductive data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

**Conditions Aggravated by Overexposure:** Respiratory disorders,

**Target Organs:** Eyes, Respiratory system,

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

## Section 12 - Ecological Data

**EPA Waste Numbers:** D002, D001

## 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:** UN2789, Acetic Acid, Glacial, 8, II

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**

Acetic Acid - No

**Chemical Category:**

Acetic Acid - No

**CERCLA Section 103 RQ(lb.):** Acetic Acid - 5000

**RCRA Section 261.33:** Acetic Acid - 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