Vinegar



Section 1 Product Description

Product Name: Vinegar

Recommended Use: Science education applications
Synonyms: Ethanoic Acid, Distilled Vinegar
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. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Hazardous to the aquatic environment - Acute Category 3

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 95

 Acetic Acid, Glacial
 64-19-7
 5

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 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: N/A

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. 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. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place.

Storage: Suitable for any general chemical storage.

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: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

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

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 - Extra Thick (8 mm)

Section 9 Physical Data

Formula: CH3COOH
Molecular Weight: 60.05 g/mol
Appearance: Colorless
Odor: Strong Vinegar

Odor Threshold: No data available

pH: 2.4 at 60.05 g/l

Melting Point: No data available

Boiling Point: 100 C Flash Point: 39 C

Flammable Limits in Air: N/A

Vapor Pressure: 11.4 at 20 °C Evaporation Rate (BuAc=1): 0.97 Vapor Density (Air=1): 2.07 Specific Gravity: 1.049 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available
Percent Volatile by Volume: 100%

Section 10 Reactivity Data

Reactivity: No data available

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.

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

materials, Halogens, Carbonates

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

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Routes of Entry Inhalation, Ingestion, and Skin contact.

Symptoms (Acute): Respiratory disorders No data available **Delayed Effects:**

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 Mouse 5620

ppm

Carcinogenicity:

Chemical Name IARC NTP **OSHA CAS Number** Acetic Acid 64-19-7 Not listed Not listed Not 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: See Section 2

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

Section 12 Ecological Data

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

Mobility: No data Persistence: Biodegradation Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity Water 7732-18-5 No data available

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

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: Air - IATA Proper Shipping Name: Not regulated for ground transport by DOT. Not regulated for air transport by IATA.

Section 15 Regulatory Information

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

Chemical Name CAS **CAA 112(2)** § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ Number

Acetic Acid, Glacial 64-19-7 5000 lb 5000 lb final No No No RQ RQ; 2270 kg

final RQ

California Prop 65: No California Proposition 65 ingredients

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Section 16	Additional
	Information

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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.

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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