Vinegar

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Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Vinegar Science education applications Ethanoic Acid, Distilled Vinegar Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



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

Composition / Information on Ingredients
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Chemical Name	<u>CAS #</u>	<u>%</u>
Water Acetic Acid, Glacial	7732-18-5 64-19-7	95 5
	04-13-7	5

Section 4

Section 3

First Aid Measures

Emergency and First Ai	Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest. 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. 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.				
Eyes:					
Skin Contact:					
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.				
Section 5	Firefighting Procedures				
Extinguishing Media: Fire Fighting Methods a	Use dry chemical, CO2 or appropriate foam. I Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained				

Fire and/or Explosion Hazards: Hazardous Combustion Products: breathing apparatus. N/A

Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

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:

Storage: Storage Code: 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. Suitable for any general chemical storage. Green - general chemical storage

Section 8

Protection Information

	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	<u>(STEL)</u>	
Acetic Acid, Glacial	10 ppm TWA	15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA	N/A	
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%

Temperatures above the high flash point of this combustible material in combination with

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

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid:

Incompatible Materials:

Hazardous Polymerization:

Section 11

Section 10

Toxicity Data

sparks, open flames, or other sources of ignition.

No data available

Will not occur

Stable under normal conditions.

materials, Halogens, Carbonates

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	Inhalation, Ingestion, Respiratory disorders No data available	and Skin contact.				
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD5 Oral LD50 Ra 90000 mg/kg		al LD50	Inhalation LC50
Acetic Acid, Glacial		64-19-7	eeeee mg.kg		L	NHALATION C50 Mouse 5620 pm
Carcinogenicity: Chemical Name Acetic Acid		CAS Number 64-19-7	IARC Not listed	N Not listed	TP	OSHA lot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mut No evidence of a tera No evidence of a sen No evidence of negat See Section 2 Not listed as a car	togenic effect (birth sitization effect.	ects.	utation data cited.	, Reproductive	e data cited.
Section 12		Ec	ological D	Jata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	No data Biodegradatio No data No data	is not expected to b	be harmful to the	ecology.		
Chemical Name Water Acetic Acid, Glacial	CAS NumberEco Toxicity7732-18-5No data available64-19-7Aquatic LC50 (96h) Fathead Minnow 79 MG/L Aquatic EC50 (24h) Daphnia 47 MG/L					
Section 13		Disp	osal Inforr	nation		
Disposal Methods: Waste Disposal Code(conta	ose in accordance w ct a permitted wast Determined				ations. Always
Section 14		Trans	port Infor	mation		
Ground - DOT Proper S N/A	Shipping Name:			oper Shipping Na		
Section 15		Regul	atory Infor	mation		
TSCA Status:	All co	mponents in this pr	oduct 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 final RQ	No	No

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.

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