Safety Data Sheet

Acetic Acid, Glacial, 17.4M

Section 1 Product Description

Product Name: Acetic Acid, Glacial, 17.4M

Recommended Use: Science education applications

Synonyms: Ethanoic Acid

Supplier: C2A Sales & Supplies (Barbados) Ltd.

#3 Canewood Road, Jackson, St. Michael, Barbados BB11005

1-246-426-1256

Section 2

Hazard Identification

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





DANGER

Flammable liquid and vapor. Causes severe skin burns and eye damage. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Flammable Liquid Category 3, Hazardous to the aquatic environment - Acute Category 3

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Acetic Acid, Glacial
 64-19-7
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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 Vapors may travel back to ignition source. Closed Containers exposed to heat

may explode. 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 Exposure to the spilled material may be severely irritating or toxic. Follow personal protective **Released or Spilled:** 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. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Handling and Storage Section 7

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving

> equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Avoid freezing to

prevent bursting of the container. Store above 17 C (62.6 F)

White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids. Storage Code:

(TWA)

Section 8 **Protection Information**

ACGIH OSHA PEL (STEL) (TWA) 10 ppm TWA 15 ppm STEL 10 ppm TWA; 25 N/A mg/m3 TWA

Control Parameters

Acetic Acid, Glacial

Chemical Name

Engineering Measures: Local exhaust ventilation, process enclosures, or other engineering controls are

> necessary when handling or using this product to avoid overexposure. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection will be required when handling this product. Use respirators only if

ventilation cannot be used to eliminate symptoms or reduce the exposure to below

acceptable levels.

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. Additionally, wear a face

shield when the possibility of splashing of liquid exists. 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. Inspect gloves for chemical break-through and replace at regular intervals. Clean

protective equipment regularly.

Gloves: Nitrile - Extra Thick (8 mm)

Physical Data Section 9

Formula: CH3COOH Vapor Pressure: 11.4 mmHg at 20 C

Molecular Weight: 60.05 Evaporation Rate (BuAc=1): 0.97 (butyl acetate = 1)

Appearance: Colorless Liquid Vapor Density (Air=1): 2.1 (air = 1)

Odor: Strong Vinegar Specific Gravity: 0.7834 at 18 C

Odor Threshold: No data available Solubility in Water: Soluble

Log Pow (calculated): -0.31 pH: No data available

Melting Point: 17 C **Autoignition Temperature: 463 C**

Boiling Point: 118 C Decomposition Temperature: No data available

Flash Point: 39 C Viscosity: 1.056 mPa-s @ 25 C Acetic Acid, Glacial, 17.4M

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Section 10 Reactivity Data

Reactivity: Mildly reactive - See below **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. Freezing,

Incompatible Materials: Acetic anhydride, Acetaldehydes, Caustics (bases), Oxidizing materials, Halogens,

Carbonates

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide

Hazardous Polymerization: May trigger violent polymerization in other materials. See chemical incompatibilities.

Section 11 Toxicity Data

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

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

Delayed Effects: Impaired Kidney Function

Dental Erosion Respiratory Irritation Lachrymation Dermititis

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Acetic Acid, Glacial64-19-7Not determinedNot determinedINHALATION LC50

Mouse 5620 ppm INHALATION LC50 MAMMAL 11.4 GM/M3

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: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

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 Name CAS Number Eco Toxicity

64-19-7

Section 13

Disposal Information

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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): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN2789 UN2789

Acetic Acid, Glacial Acetic Acid, Glacial Class 8 (Class 3) Class 8 (Class 3)
P.G. II P.G. II

Section 15

Regulatory Information

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

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

California Prop 65: No California Proposition 65 ingredients

Section 16 Additional Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-24-2018

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	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