

MATERIAL SAFETY DATA SHEET

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MSDS No. Effective Date

AA 05 August 22, 1996

SECTION NAME 24 HOUR EMERGENCY ASSISTANCE Product ACETIC ACID. CHEMTREC Health 3 Chemical 800-424-9300 Ethanolc acld: Methanecarboxylic acld Synonyme Day 716-225-5177 Fire 2 Formula CH_COOH Resctivity **NFPA** HAZARD RATING Unit Size HMIS up to 2.5 Lt. SUGHT MODEPATE C.A.S. No. 2 64-19-7 3 SECTION II INGREDIENTS OF MIXTURES Principal Component(s) % **TLV Units** Acetic Acid, Glacial 99.8% TWA: 10 ppm; 25 mg/m³ DANGERI POISON CORROSIVEI COMBUSTIBLE. CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED. SECTION III PHYSICAL DATA Specific Gravity (H₂O = 1) Melling Point (°F) 16.7°C (61°F) 1.051 @ 20/20°C Percent Volstu Bolling Point (°F) 118.1°C (245°F) 100% by Vokerne (%) Vapor Pressure (mm Hg) 11.4 mm @ 20°C (68°F) Butyl Ac. 1.0 Vapor Density (Air=1) 2.07 Solubility in Water Complete. Appearance & Odor Clear, colorless liquid; strong acrid vinegar-like odor.

SECTION	NIV FIRE A	IND EXPLOSION HAZA	RD DATA		
Flash Point		Flammable Limits in Air	Lover	Upper	
(Method Used)	43°C (109°F) CC.	% by Volume	5.3	16.6	
Extinguisher Media	Use carbon dioxide (CO ₂), d	ry chemical, alcohol foam. Large spil	ls, use water spray o	or alcohol foam.	

SPECIAL FIREFIGHTING **PROCEDURES**

Water in a straight hose stream will scatter and spread fire and should not be used. Use water spray to cool container. In fire conditions, wear a NIOSH/ MSHA-approved self-contained breathing apparatus and full protective ciothing. Gives off flammable vapor above its flash point, 109°F. Vapor forms explosive mixtures with air. Dangerous in contact with chromic acid, sodium peroxide, nitric acid or other oxidizing materials.

Autoignition Temperature: 426°C (800°F).

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat or spark. Acid reacts with most metals to release hydrogen gas which can 'orm explosive mixtures with air. Moderate fire hazard, when exposed to heat and flame; can react vigorously with oxidizing materials. May produce severe acid burns to skin and eyes. Prolonged breathing of concentrated vapor may be harmful. Glacial acetic acid contracts upon freezing (specific gravity of liquid at 62.1°F is 1.05 and of the solld at 62°F is 1.27).

(1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE NO. 29)

D.O.T. Acetic acid, glacisi, 8, UN 2789, PG II

Approved by U.S. Department of Labor "essentially similar" to 'orm OSHA-20

SECTION V **HEALTH HAZARD DATA**

Threshold Limited Value TWA: 10 ppm; 25 mg/m³ , STEL: 15 ppm; 37 mg/m³ , (ACGIH, 1992-93) Toxicity data: orl-rat LD50: 3.3 g/kg

Effects of Overexposure

SK(N; Can cause chemical burn. EYES; Can cause chemical burn. Damage irreversible. Vapore are severely irritating. INHALATION; Causes severe irritation of nasal passages, throat and lungs. Can cause pulmonary edema. INGESTION: Causes severe tritation of and damage to mouth, throat and stomach.

Emergency and First Ald Procedures

SECTION VI

SKIN; Immediately flush exposed area with water, then water containing sodium bicarbonate. Il Irritation persists, contact physician. EYES; Flush thoroughly with water for at least 15 minutes, litting upper and lower eyellds occasionally. Get immediate medical attention. INHALATION: Remove to occasionally. Get immediate inedical autolition. Information, then oxygen if resh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact a physician immediately. INQESTION: On NOT induce vomiting. Drink large quantities of water, follow with milk of magnesia. beaten eggs, or vegetable oil. Get prompt medical attention. Never give anything by mouth to an unconscious person.

	VWV BEEN		CACHVITUATA		
Stability	Unstable		Conditions to Avoid	Keep from freezing. Avoid excessive	
	Stable	X		temperature, heat, sparks and open flam	
incompatibility (Materials to Avoid) Oxidizing agents, for example, hydrogen peroxide, nitric acid, perchloric acid, perchlor					
Hazardous Decomposition Products			Dangerous; when heated to decomposition, emits toxic and corrostive fumes of carbon monoxide and/or carbon dioxide.		
Hazardous	Polymeriza	tlon	Conditions to Avoid		
May Occur	ceur Will Not Occur		Not applicable.		
		X	1		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Eliminate all sources of ignition. Avoid eye or skin contact. To neutralize odor or acidity, cover contaminated surface with soda ash or sodium bicarbonate. Place leaking containers in a well-vent-lated area with split containment. If his potential exists, blanket spill with a cohol-type aqueous film-forming foam. Cover spill with absorbent material and place in suitable container for disposal. Avoid runo'l to sewers and ditches which lead to natural waterways

Waste Disposal Method

British Andrews

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Preferred method of waste disposal are Incineration or biological treatment in federal/state approved facility.

Respiration Protect (Specify Type)	A STATE OF THE PARTY OF T		ECIAL PROT	STATE AND DESCRIPTION OF THE PROPERTY OF THE P	the same of the same of the same of	MATION IOSH/MSHA-approved respirator	
Ventilation	Local Exhaust		Recommended	Special		No.	
	Mechanic	al (General)	Recommended.	Other	1	No	
Protective Gloves		Rubber.	Eye Protection		Chemical safety goggles, face shield		
Other Protective Equipment		s and shield,				re extinguisher, eye wash station.	
SECTION I	X	SP	ECIAL PREC	AUTIONS	3		

Precautions to be Taken

in Handling & Storing Keep contained fightly closed when not in use

Store in a well-ventilated area away from heat, sparks and open flame. Keep in tightly closed container, at a temperature above 17°C (63°F). Store separate from oxidizing materials and combustible materials. Remove cap slowly.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals

Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Use adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing. Protect against physical damage. If frozen, thaw by moving closed container to warm area.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 3 Date 8/22/96 Approved Michael Raszela MA

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