MATERIAL SAFETY DATA SHEET WITE 1986

		SECTION II HAZADDOLIS INCREDIENTS OF HISTORY	
မှ နို	0 1 2	7664-93-9	C.A.S. No.
	HAZARD RATING	100, 500 ml, 1 Liter, 4 Liters	Unit(s) Size
Reacti	NEDA North 716-334-4222	H ₂ SO ₄	Formula
	0 716-226-6177	Concentrations: 1.0, 0.1 Normal	Synonyms
	CHEMTREC	SULFURIC ACID, SOLUTIONS	Product
		SECTION I NAME	SECTION I

	ω	Reactivity	NFPA	i
	0	Fire	Day 716-226-6177 Night 716-334-4222	<u> </u>
	w	Health	800-424-9300	Į.
_			CHEMING \	

		ယ	2	-	0
¥	EXTREM	Ē	MODERATE	SLIGHT	LEAST
			S N	HAZARD RATING	HAZAI
w	tivity	Reactivit		Þ	NFPA
ŀ		Ī		Target A	_

Principal Hazardous Component(s)	%	TLV Units
Sulfuric Acid: 1.0 Normal	4.9%	See Section V
0.1 Normal	0.49%	-
CAUTION! MAY CAUSE SKIN IRRITATION		•

SECTION III PE	SECTION III PHYSICAL DATA		
Molting Deint (SF)			
weiting Foint (*F)	Approx. 0°C (32°F)	Specific Gravity (H,0=1) I.0 at 20°C	1.0 at 20°C
Boiling Point (°F)	Approximately 100°C	Percent Volatile by Volume (%)	95-99-5%
Vapor Pressure (mm Hg) 14 (water)	14 (water)	ate	= 1) Greater than 1
Vapor Density (Air = 1) 0.7 (water)	0-7 (water)		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

MAY BE HARMFUL IF SWALLOWED.

Solubility in Water	Vapor Density (Air = 1)	
Complete	0.7 (water)	()

Appearance and Odor Clear colorless liquid; no odor.

Extinguisher Media	10000	Method Used	SECTION
If involved in a fire situation use water spray.	78 by volume IVA	Non-flammable (NA) Flammable Limits in Air	IV FIRE AND EXPLOSION HAZARD D
		Lower	ATA
	1	Upper	

Media ¥

SPECIAL FIREFIGHTING PROCEDURES

These solutions are very dilute.
In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and full protective clothing and eye

UNUSUAL FIRE AND EXPLOSION HAZARDS

Attacks many metals, releasing hydrogen.
Fire or excessive heat may produce hazardous decomposition products; can react vigorously with alkali materials.

CORROSIVE MATERIAL, ORM-D, 15% OR LESS

D.O.T.



905 HICKORY LANE MANSFJELD OHIO 44905 FREY SCIENTIFIC

MSDS No. Effective Date

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

Effects of Overexposure

THA: 1 mg/m3 (AIR) (ACGIH 1983-84).

May be harmful if swallowed.
Contact may cause irritation to skin, eyes and mucous membranes.

Emergency and First Aid Procedures

EXTERNAL: Flush with water for 15 minutes.

INTERNAL: Drink large quantities of water, follow with milk of magnesia, vegetable oil or beaten eggs. Call physician. EYES: Flush with water for 15 minutes. Set prompt medical attention.

009918

SECTION VI REACTIVITY DATA

Stability Unstable Stable Conditions to Avoid

Excessive temperature and heat.

Incompatibility (Materials to avoid)

Attacks many metals, bases. Reacts with alkalies.

Hazardous

Decomposition Products When heated to decomposition, may release sulfur dioxide funes.

Hazardous Polymerization May Occur Will Not Occur **Conditions to Avoid**

SECTION VII SPILL OR LEAK PROCEDURES

Not applicabl

material is released or spilled Steps to be taken in case

Neutralize with sodium bicarbonate (soda ash) flush to sewer with copious amounts of water. and

Waste Disposal Method

Flush neutralized acid to sewer with copious amounts of water.

Discharge, treatment, or disposal may be subject to federal, state, or local laws

SECTION VIII SPECIAL PROTECTION INFORMATION

Ventilation Local Exhaust
Mechanical (General) None needed at room temperatures None needed Special

Other Protective Equipment Protective Gloves

Rubber

Eye Protection

Chemical safety glasses

SECTION IX

Goggles, smock, apron, eye wash station, proper gloves.

SPECIAL PRECAUTIONS

in Handling and Storing Precautions to be Taken

Store in a cool place. Wash thoroughly after handling.

(seep container tightly closed when not in use

Other Precautions Read label on container before using

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

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Rev. No. Date 1/12/87 Approved (Milanter) (! Chemical Safety Coordinator

В