MATERIAL SAFETY DATA SHEET"17 1, 1986

Synonyms Formula Product C.A.S. No. Unit(s) Size SECTION I NAME 77-09-8 Phenolphthalein ph indicator 100, 500 ml, 1 Liter PHENOLPHTHALEIN SOLUTION (C6H40H)2C202C6H4 EAST HAZARD RATING 0 E OH Day 716-226-6177 Night 716-334-4222 CHEMTREC 800-424-9300 MODERATE Ĭ 4

Reactivity 1 Health Fire EXTREME w ćω

Principal Hazardous Component(s) SECTION II HAZARDOUS INGREDI IENTS OF M % TLV Units

		Ĺ		
Phenolphthalein	Î		1%	See Section V
2-Propanol (I	2-Propanol (Isopropyl Alcohol)	· -	266	
WARNING! FLAWWABLE-HARMFUL IF SWALLOWED.	ARMFUL IF SWALLOWED.			
SECTION III PH	PHYSICAL DATA			
Melting Point (°F)		ific Gra	vity (H,0 = 1)	Specific Gravity (H,0 = 1) 0.7854 at 20°/4°C
Boiling Point (°F)	82.3°C (IPA). Perce	Percent Volatile by Volume (%)		266

Solubility in Water Vapor Density (Air = 1) Vapor Pressure (mm Hg) Complete 2.07 (IPA) 33 at 20°C (IPA) Evaporation Rate Ether Greater than 1

Appearance and Odor Clear colorless liquid; sweet pleasant odor.

Extinguisher Media SECTION ash Point Aethod Used) IV. FIRE AND EXPLOSION HAZARD DATA Dry chemical (ABC); Carbon dioxide (CO₂); alcohol foam 55°C (Isopropyl Alc.) Flammable Limits in Air % by Volume (IPA)

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

Autoignition temperature: 852°F

D.O.T.

FLAWMABLE LIQUID, N.O.S.

CIENTIFIC

905 HICKORY LANE MANSFIELD OHIO 44905 FREY SCIENTIFIC

MSDS No. Effective Date

Rev. No.

Date

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established for Phenolphthalein. (ACGIM 1983-84) Isopropyl alcohol (CAS No. 67-63-0) TWA: 400 ppm; 989 980 mg/m3 (Air).

Effects of Overexposure eye, nose and throat irritation. Exposure to excessively high concentrations INHALATION: Exposure to high vapor concentrations. (> 400 ppm) may cause

may cause narcosis (drowsiness, sleepiness, etc.) ETES: Liquid may cause irritation. SKIE: Prolenged or repeated skin contact may cause skin irritation; drying,

ng and defatting of skin. ION: Harmful if swallowe

drink. Induce vomiting and call physician. NGESTION: If swallowed, if conscious, give one or two glasses of water

Emergency and First Ald Procedures

INHALATION: Remove to fresh air. Treat symptomatically, attention if symptoms persist. Get medical

100378 EYES: Immediately flush eyes with plenty of water and get medical attention if symptoms persist.

SKIN: Flush with plenty of water

SECTION VI REACTIVITY DATA

Stability Stable Unstable **Conditions to Avoid** Protect from light. Excessive temperature and heat

(Materials to avoid) Incompatibility Strong oxidizers

Hazardous Polymerization **Decomposition Products** May Occur Conditions to Avoid Combustion will produce carbon dioxide and probably carbon monoxide.

Hazardous

Will Not Occur

SECTION VII SPILL OR LEAK PROCEDURES

material is released or spilled Steps to be taken in case

128

Add absorbent (sand, earth, sawdust, vermiculite) Remove all sources of sparks or flame. spill area. Wash spill area with soap and water.

Waste Disposal Method

Dispose of in an approved incinerator or contract with a licensed waste disposal service.

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

SECTION VIII SPECIAL PROTECTION INFORM ATION ...

Ventilation Local Exhaust Mechanical (General) tion Protection None needed in norm in normal laboratory handling prevail, work in a ventilation handling. At elevated temperatures or htilation hood or wear a NIOSH-approved Other if misty

Protective Gloves Rubber Eye Protection Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS recautions to be Taken

Other Protective Equipment

in Handling and Storing

Do not handle or store near heat, sparks, flame or strong oxidants 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

S) 1/2/87Approved / 1701 Chemical Safety

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.