## MIAI EHIAL SAFETY DATA SHEET

716) 359 2502 Natural Science Establishm P O Box 92912 WARD'S

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MSDS No. Iffective Date
July 1, 1986
Effects

Synonyms C.A.S. No. Formula Unit(s) Size Product SECTION I None assigned 100, 500 ml., 1 Lt. Mixture of pH indicators Bogen's Universal pH Indicator solution UNIVERSAL PH INDICATOR SOLUTION NAME 24 HOUR EMERGENCY ASSISTANCE HAZARD RATING LEAST SUGHT CHEMTREC MODERATE

Day 716-226-6177 Nght 716-334-4222 800-424-9300 Reactivity Health Fire 3

HAZARDOUS INGREDIENTS OF MIXTURES

EXTREME

Principal Hazardous Component(s) Mixture of pH indicators: Orange IV 0.07%, Alizarin yellow 0.10% Methyl Orange 0.1%. Methyl Red 0.08%, Bromothymol Blue 0.04%, Phenolphthalein 0.50% isopropyl alcohol (as solvent) 92.3% % See Section V **TLV Units** 

SECTION III DANGER! FLAMMABLE-HARMFUL IF INHALED OR SWALLOWED PHYSICAL DATA

Vapor Pressure (mm Hg) 33 mm at 20° C Boiling Point (°F) Melting Point (°F) -90° C ( -130° F) 181° F (83° C) **Evaporation Rate** Percent Volatile by Volume (%) Specific Gravity (H,0=1) 0.786 at 20°/20° C = 1) Greater than 99.6%

Solubility in Water Vapor Density (Air = 1)

Complete

Appearance and Odor Red liquid; mild sweet alcohol odor

SECTION IV Method Used) 53° F (12° C) (T.C.C.) AND EXPLOSION HAZARD % by Volume 0/116

Water spray; carbon dioxide (CO<sub>2</sub>); dry chemical (ABC)

SPECIAL FIREFIGHTING PROCEDURES

Extinguisher

contained breathing apparatus and protective clothing to prevent contact with skin and eyes In fire conditions, wear a NIOSH-approved self-

Ignition temperature: 750° F (399° C)

EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of nitrogen ( $NO_X$ ) and sulfur ( $SO_X$ ); can react vigorously with strong oxidizing materials

D.O.T.

Approved by U.S.

Sartment of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

4600

The state of

Threshold Limited Value

None established for this mixture by (ACGIH 1983-84).

TLY for Isopropyl alcohol CAS No.[67-63-0];TMA 400 ppm; 980 mg/m³ (Air).

ects of Overexposure May be harmful by inhalation, ingestion or skin absorption. To the best of our knowledge, the chemical, physical and toxicological properties have not with the skin or eyes and to prevent inhalation of vapor. IHMALATION: Exposure to high concentrations (>400 ppm) of solvent (isopropyl alcohol) may cause eye, nose and throat irritation and excessively high concentrations (drowsiness, sleepiness). EYES: May cause stinging of the eyes.

Emergency and First Aid Procedures

INHALATION: Remove to fresh afr: observe for 30 minutes for intoxication signs. Get medical assistance for serious exposure. SKIN CONTACT: Flusi with water, then follow with washing with mild soap and water. drink, induce vomiting and call physician. thoroughly with water for at least 15 minutes. Get prompt medical INGESTION: If swallowed, if conscious, give one or two glasses of water to SKIN CONTACT: Flush attention

Stability Stable (Materials to avoid) Incompatibility SECTION VI Unstable REACTIVITY DATA Strong oxidizing materials can react vigorously with this material Conditions to Avoid Excessive temperature or heat; sparks and flame

Hazardous

**Decomposition Products** 

carbon monoxide, oxides of nitrogen( $NO_X$ ) and sulfur ( $SO_X$ ) Thermal decomposition or burning will produce carbon dioxide and/or

Hazardous Polymerization May Occur WIII Not Occur Conditions to Avoid

Steps to be taken in case material is released or spilled SECTION VII SPILL OF LEAK PROCEDURES

material is handled and disposed of as a flammable liquid. in a suitable container for disposal by ignition. small spills in paper, vermiculite, soil, etc.; sweep up and place Remove all ignition sources. Provide adequate ventilation.

Waste Disposal Method

12.7% @ 93°C

Dispose of in an approved incinerator equipped with an afterburner and scrubber 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 INFORMATION

None should be needed in normal

laboratory use at room temperature.

Above room

Ventilation | Local Exhaust | Not needed | Recommended **Protective Gloves** ecify Type) Eye Protection Special Other

Chemical safety glasses

Other Protective Lab coat, proper gloves, eye wash station, fire extinguisher.

PRECAUTIONS

in Handling and Storing recautions to be Taken SECTION IX SPECIAL

Store in a cool, dry place away from strong oxidizing materials and fire hazards. Wash thoroughly after handling.

Other Precautions

veep container lightly closed when not in use

Read label on container before using Do not get in eyes, on skin, on clothing.

precautions must be used in storage, use and handling. to assign complete numerical HAZARD RATINGS and laboratory protective equipment for this product. Avoid breathing vapors. There is insufficient data in the published literature

Rev. No. For laboratory use only. Not for drug, food or household use. Keep out of reach of children

Date 1/12/87 Approved Clandy

The information contained herein is furnished without warranty of any kind. Employers should use supplement to other information gathered by them and must make independent determinations of surface of information from all sources to assure proper use of these materials and the safety and health of e Chemical Safety ormation only as a

Special