I. PRODUCT IDENTIFICATION

PRODUCT NAME: Wide Range pH Indicator Solution

II. INGREDIENTS

Isopropanol

PCT: <55
TLV: 150 ppm
HAZARD: Moderately toxic; flammable; may cause irritation

Other components, each

PCT: <0.1
TLV: Not applicable
HAZARD: Not applicable

Desminalized Water

PCT: to 100
TLV: Not applicable
HAZARD: None

Any component of this mixture not specifically listed (e.g., "other components") is not considered to present a carcinogen hazard.

III. PHYSICAL DATA

STATE: Liquid
APPEARANCE: Clear, dark green
ODOR: Isopropanol
SOLUBILITY IN: Water: Miscible
ACID: Miscible
OTHER: Not determined
BOILING POINT: 78°C
MELTING PT: -25°C
SPECIFIC GRAVITY: 0.792
PH: 6.7
VAPOR PRESSURE: Not determined
VAPOR DENSITY: 1-air=0.5
EVAPORATION RATE: 5.45 Metal Corrosivity: Aluminum: 0.005 in/yr
STEEL: 0.005 in/yr
STABILITY: Stable
STORAGE PRECAUTIONS: Store in cool, dry place away from oxidizers.

IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: 21.1°C
FLAMMABILITY LIMITS: Lower: Nd, Upper: Nd
SENSITIVITY TO SPONTANEOUS HEATING: None
SHOCK SENSITIVITY: None
AUTOFICTION PT: Nd
EXTINGUISHING MEDIA: Water, dry chemical, alcohol foam or carbon dioxide
FIRE/EXPLOSION HAZARDS: Flammable; may react with oxidizers; may emit toxic fumes
HAZARDOUS DECOMP.: PRODUCTS: May emit toxic fumes of carbon monoxide, carbon dioxide in fire
OXIDIZER: No
NFPA Codes: Health: 1 Flammability: 3 Reactivity: 0
CONDITIONS TO AVOID: Heat, flames, oxidizers, (H2 + Pd), nitroform, alum, potassium tert-butoxide, aluminum, CoC12

V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: Irritating to eyes, skin and respiratory tract.

ACUTE TOXICITY: Slight to toxic

ROUTES OF EXPOSURE: Ingestion, Inhalation, Skin Contact

TARGET ORGANS: Central nervous system

CHRONIC TOXICITY: Not determined

ROUTES OF EXPOSURE: Not determined

TARGET ORGANS: Not determined

CANCER INFORMATION: Not determined

ROUTES OF EXPOSURE: Not determined

TARGET ORGANS: Not determined

OVEREXPOSURE: Causes moderate irritation of eyes, nose, throat. May cause drowsiness, headaches, incoordination, cramps, nausea, vomiting, diarrhea, giddiness, depression, coma, respiratory arrest.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin disorders, impaired pulmonary function such as obstructive airway disease.

VI. PRECAUTIONARY MEASURES

Avoid contact with eyes and skin.

Do not breathe vapor.

Wash thoroughly after handling.

PROTECTIVE EQUIPMENT: Adequate ventilation, lab grade goggles, disposable latex gloves.

The information contained herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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