

## MATERIAL SAFETY DATA SHEET

### I PRODUCT IDENTIFICATION AND USE

MANUFACTURERS NAME: Diagnostic Chemicals Limited  
16 McCarville St  
West Royalty Industrial Park  
Charlottetown, P.E.I.  
Canada C1E-2A6  
902-566-1396

CHEMICAL/PRODUCT NAME: **Ethanol-L3K**

CATALOGUE NUMBER: **273-30, 273-17**

NOTE: Physical and health hazard information on reagent mixtures has not been determined. Any physical and health information noted is based 1) on evaluation of data for the pure ingredients, and 2) concentration of ingredients as packaged.

PRODUCT DESCRIPTION: For the in vitro determination of ethanol in human serum, plasma, and urine.

### II HAZARDOUS INGREDIENTS

Reagent 1:	<u>ACGIH TLV</u> (NE = Not Established)	<u>CAS</u>
MOPSO (2.5% w/v)	NE	NE
Pyrazole (0.14% w/v)	NE	NE

Standard: n.ap

### III TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY/EXPOSURE

SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x] INGESTION: [x] SKIN ABSORPTION [x]

#### **EFFECTS OF ACUTE EXPOSURE:**

SKIN CONTACT: May cause irritation.

EYE CONTACT: May cause irritation.

INGESTION: May be harmful if ingested.

INHALATION: May cause irritation to mucous membranes and upper respiratory tract.

**EFFECTS OF CHRONIC EXPOSURE: Pyrazole:** Teratogenic, effects on liver, fertility, embryo/fetus, specific developmental abnormalities, and tumorigenic.

**EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY:**

**Pyrazole:** Overexposure may cause reproductive disorders based on animal testing. Teratogenic, effects on fertility, embryo/fetus, specific developmental abnormalities, and tumorigenic.

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: MOPSO: n.av.

LD50: Pyrazole: Oral rat, 1010 mg/kg

### IV EMERGENCY AND FIRST AID MEASURES

SKIN: In case of contact, immediately flush area with plenty of water.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

ORAL: If ingested drink plenty of fluids and contact a physician.

INHALATION: If inhaled remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call a physician.

### V PHYSICAL DATA

PHYSICAL STATE: Both reagent and standard are liquid  
APPEARANCE AND ODOUR: Reagent is pale yellow with no distinctive odour. Standard is clear and colourless with no distinctive odour.

ODOUR THRESHOLD: n.av.

VAPOUR PRESSURE: n.av.

VAPOUR DENSITY: n.av.

SPECIFIC GRAVITY: n.av.

EVAPORATION RATE: n.av.

MELTING POINT: n.av.

BOILING POINT: n.av.

SOLUBILITY IN WATER: Soluble

pH: Reagent = 7.3, Standard = n.av.

COEFFICIENT OF OIL/WATER DISTRIBUTION: n.av.

### VI FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE: No

EXTINGUISHING MEDIA: As appropriate for fire in surrounding materials.

FLASH POINT: n.ap.

UPPER FLAMMABLE LIMIT: n.ap.

LOWER FLAMMABLE LIMIT: n.ap.

AUTOIGNITION TEMPERATURE: n.ap.

HAZARDOUS COMBUSTION PRODUCTS: MOPSO and Pyrazole: carbon dioxide, carbon monoxide and nitrogen oxides. MOPSO: also sulfur oxides.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: n.ap.

SENSITIVITY TO STATIC DISCHARGE: n.ap.

UNUSUAL FIRE AND EXPLOSION HAZARDS: MOPSO and Pyrazole emit toxic fumes under fire conditions.

### VII REACTIVITY DATA

STABLE: Yes

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY WITH OTHER SUBSTANCES: MOPSO: strong oxidizing agents. Pyrazole: acids, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: n.av.

**VIII PREVENTIVE MEASURES**

LOCAL EXHAUST: Not required  
PROTECTIVE CLOTHING: Lab coat  
PROTECTIVE GLOVES: Rubber  
EYE PROTECTION: Safety glasses

OTHER PRECAUTIONS: Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.

RESPIRATORY PROTECTION: None normally required.

LEAK AND SPILL PROCEDURE: Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water.

WASTE DISPOSAL: Dilute with a large volume of water and dispose of into sewer system, in accordance with local regulations.

STORAGE REQUIREMENTS: 2-8°C

SHIPPING INFORMATION: Not regulated

**IX PREPARATION OF THE M.S.D.S.**

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DATE: 23 January 2002

*\* n.av. not available n.ap. not applicable*

The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct DCL makes no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health and pollution.

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