

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

	<u>ACGIH TLV</u> (NE = Not Established)	<u>CAS</u>
Reagent 1:		
MOPSO (2.5% w/v)	NE	NE
Pyrazole (0.14% w/v)	NE	288-13-1

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.

CARCINOGENICITY

MOPSO: no information available
Pyrazole: no information available

REPRODUCTIVE Toxicity

MOPSO: no information available
Pyrazole: no information available

TERATOGENICITY AND EMBRYOTOXICITY

MOPSO: no information available
Pyrazole: suspect Teratogen

MUTAGENICITY

MOPSO: no information available
Pyrazole: no information available

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: MOPSO: n.av.

LD50: Pyrazole: n.av.

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.ap.
FREEZING POINT: n.av.
BOILING POINT: n.av.
SOLUBILITY IN WATER: Soluble
pH: Reagent = 7.3, Standard = 7.0
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.

IV EMERGENCY AND FIRST AID MEASURES

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 nitrile recommended

EYE PROTECTION: Safety glasses with side-shields

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

ENGINEERING CONTROLS: Facilities utilizing and storing these materials should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne contamination low.

RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 (US), European Standard EN 149 or CSA Standard Z94.4-02 (Canada) whenever workplace conditions warrant respiratory use.

LEAK AND SPILL PROCEDURE: Clean up spills immediately, wearing personal protective equipment mentioned in this MSDS. Sweep up or absorb material, then place in a suitable clean, dry closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

WASTE DISPOSAL: Dispose of in accordance with all applicable local, state, provincial or federal regulations.

STORAGE REQUIREMENTS: 2-8°C

SHIPPING INFORMATION: Not regulated

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

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DATE: January 26, 2006

* 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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