

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: **ALT L3K®**

CATALOGUE NUMBER: **343-25**

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 quantitative analysis of alanine aminotransferase in serum

II HAZARDOUS INGREDIENTS (NE not established)

ACGIH TLV

CAS

ALT Reagent:

Tris Free Base (Trishydroxymethylaminomethane hydrochloride) 1.2%(w/v) NE

77-86-1

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 swallowed.

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

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: None anticipated.

SENSITIZATION TO PRODUCT:
SYNERGISTIC PRODUCTS: n.av.

LD50: Tris free base: 5900 mg/kg oral rat.

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: Liquid

APPEARANCE AND ODOUR: pale yellow, odourless liquid.

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: 7.5

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: n.av.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: n.ap.

SENSITIVITY TO STATIC DISCHARGE: n.ap.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Tris free base emits toxic fumes under fire conditions.

VII REACTIVITY DATA

STABLE: Yes

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY WITH OTHER SUBSTANCES: Strong oxidizing agents and acids.

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

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: Dispose of in accordance with all applicable provincial, federal, state, and local regulations.

STORAGE REQUIREMENTS: 2-8°C

SHIPPING INFORMATION: Not regulated

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

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DATE PREPARED: January 25, 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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