

MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION AND USE

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

CHEMICAL/PRODUCT NAME: Kinetic Creatinine-S Reagent

CATALOGUE NUMBER: 221-30, 221-30M, 221-50, 221-30S*

* indicates standard only.

NOTE: Physical and health hazard information on reagent mixtures have 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 determination of creatinine.

II HAZARDOUS INGREDIENTS (NE Not Established)

		<u>ACGIH TLV</u>	<u>CAS</u>
R1: 0.25M Sodium Hydroxide Reagent:	1% sodium hydroxide	2 ppm (C)	1310-73-2
R2: Picric Acid Reagent: n.ap			
Creatinine 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: R1 is Corrosive and direct contact will cause burns. Contact with the other components may cause irritation.

EYE CONTACT: R1 is Corrosive and direct contact will cause burns. Contact with the other components may cause irritation.

INGESTION: R1 is corrosive and is harmful if ingested

INHALATION: R1 Will cause irritation to mucous membranes and upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE: n.ap.

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: n.ap.

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: Sodium hydroxide 140-340 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: Sodium Hydroxide Reagent, Picric Acid Reagent and the Creatinine Standard are all liquids.

APPEARANCE AND ODOUR: Sodium Hydroxide reagent is clear and colourless. Picric Acid reagent is clear and yellow. The Creatinine Standard is clear and colourless.

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: R1 13. R2 n.av; 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: n.av.

EXPLOSION DATA:
SENSITIVITY TO MECHANICAL IMPACT: n.ap.
SENSITIVITY TO STATIC DISCHARGE: n.ap.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Unknown

VII REACTIVITY DATA

STABLE: Yes
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY WITH OTHER SUBSTANCES: n.av.

HAZARDOUS DECOMPOSITION PRODUCTS: n.av.

VIII PREVENTIVE MEASURES

LOCAL EXHAUST: R1: Recommended to prepare under a fume hood.
R2: 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: R1: Respirator recommended when working with large amounts. R2: 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: 18-26°C

SHIPPING INFORMATION: Sodium hydroxide solution UN 1824 Packing Group III. Packing Instructions Passenger Air 819 (5 litre) Y819 (1 litre). Cargo Air 821, 60 litre.

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

PREPARED BY: Denise Bustard
PHONE NO: 902-566-1396
DATE: June 20, 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.

MSDS22130-11