



Material Safety Data Sheet

1 PRODUCT IDENTIFICATION AND USE

MANUFACTURER: Diagnostic Chemicals Limited
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Charlottetown, P.E.I.
Canada C1E-2A6
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PRODUCT NAME: Kinetic Creatinine-S Reagent
CATALOGUE NUMBER: 221-30, 221-50, 221-OP
PRODUCT USE: For IN VITRO quantitative determination of creatinine in serum.
DATE OF MSDS PREPARATION: April 27, 2007
MSDS PREPARED BY: John Gabriel
EMERGENCY TELEPHONE NO.: 1- (902) 566-1396

2 COMPOSITION, INGREDIENT INFORMATION

<u>COMPONENT</u>	<u>CAS REGISTRY NUMBER</u>	<u>ACGIH TLV</u>
Sodium Hydroxide Reagent (R1): Sodium hydroxide 1% w/w	1310-73-2	2 mg/m ³ STEL
Picric Acid Reagent:	not applicable	not applicable
Creatinine Reagent:	not applicable	not applicable

3 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

May be harmful if swallowed. Physical and health hazard information on reagent mixtures has not been fully determined.

POTENTIAL HEALTH EFFECTS:

ROUTE OF ENTRY/EXPOSURE: EYE CONTACT: [X] SKIN CONTACT: [X] INHALATION: [X] INGESTION: [X]
SKIN ABSORPTION: [X]

EFFECTS OF ACUTE EXPOSURE TO PRODUCTS:

EYES: May cause irritation.
SKIN: May cause irritation.
INHALATION: May cause irritation to mucous membranes and upper respiratory tract.
INGESTION: May be harmful if ingested.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: No constituents recognized by IARC, ACGIH, NTP or California Proposition 65 as carcinogenic. No human data on teratogenicity, embryo toxicity or mutagenicity.

4 FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes and obtain medical attention.
SKIN: In case of contact, immediately flush area with plenty of water. If irritation continues seek medical attention.
INHALATION: If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and obtain medical attention.
INGESTION: If ingested, drink plenty of fluids and obtain medical attention.

5 FIRE AND EXPLOSION HAZARDS

FLAMMABLE: No
FLASH POINT: not available
FLAMMABLE LIMITS (% in Air): Lower: not available. Upper: not available
EXTINGUISHING MEDIA: As appropriate for fires in surrounding materials.
FIREFIGHTING: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
AUTOIGNITION TEMPERATURE: not available
HAZARDOUS COMBUSTION PRODUCTS: not available
EXPLOSION DATA: Sensitivity to mechanical impact: not available. Sensitivity to static discharge: not available

6 ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Ventilate the area. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material and place in waste container. Wash surrounding area. Dispose of spilled and contaminated material in accordance with federal, provincial, state, and local regulations.

7 HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

STORAGE REQUIREMENTS: 18-26 °C

INCOMPATIBILITIES: not available

HAZARDOUS DECOMPOSITION PRODUCTS: not available

8 EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust not required under normal circumstances.
PERSONAL PROTECTIVE CLOTHING (PPE): safety glasses with side-shields, lab coat, rubber nitrile or other impermeable gloves.
RESPIRATORY PROTECTION: none required.
EXPOSURE LIMITS: not available

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: All reagents are liquids.
APPEARANCE: Sodium Hydroxide Reagent is clear and colorless. Picric Acid Reagent is clear and yellow. Creatinine Reagent is clear and colorless.
ODOUR THRESHOLD: not available
MELTING POINT: not available
BOILING POINT: not available
SPECIFIC GRAVITY: not available
VAPOUR PRESSURE: not available
VAPOUR DENSITY: not available
WATER SOLUBILITY: soluble
EVAPORATION RATE: not available
pH at 25 °C: Sodium Hydroxide Reagent=13; Picric Acid Reagent=not available; Creatinine Standard=not available
COEFFICIENT OF OIL/WATER DISTRIBUTION: not available

10 STABILITY AND REACTIVITY

STABILITY: Stable
POSSIBLE HAZARDOUS REACTIONS/CONDITIONS: not available
CONDITIONS TO AVOID: not available
MATERIALS TO AVOID: not available
HAZARDOUS DECOMPOSITION PRODUCTS: not available.

11 TOXICOLOGICAL INFORMATION

LD₅₀: Sodium hydroxide; 40 mg/kg (mouse, ip)
SENSITIZATION TO PRODUCT: not available
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: not available
IRRITANCY OF PRODUCT: not available
EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: no data available

12 ECOLOGICAL INFORMATION

not available

13 DISPOSAL CONSIDERATIONS

RECOMMENDATION FOR DISPOSAL OF UNUSED PRODUCT: Observe all federal, provincial, state and local regulations.

RECOMMENDATION FOR DISPOSAL OF PACKAGING: Observe all federal, provincial, state and local regulations.

14 TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION:

Sodium Hydroxide Reagent:
UN1824, Sodium hydroxide solution, Class 8, Packing Group III

15 REGULATORY INFORMATION

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

Sodium Hydroxide Reagent:

RISK PHRASES: R36/38 Irritating to eyes and skin.

SAFETY PHRASES: S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28 After contact with skin, take off immediately
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16 OTHER INFORMATION

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 the environment.

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