

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: **Uric Acid (Enzymatic Colourimetric).**

CATALOGUE NUMBER: **220-93*, 220-94*, 220-93k, 220-93M, 220-S4*, 220-S4M*, 220-96H, 220-97, 220-15, 220-15I, 220-93S**.**

* Note only the 220-93, 220-94, 220-S4, and 220-S4M contain the Standard.

** includes the 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 uric acid.

II HAZARDOUS INGREDIENTS (NE not established)

	<u>ACGIH TLV</u>	<u>CAS</u>
Uric Acid Reagent:		
3,5-Dichloro-2-hydroxy benzenesulfonic acid, sodium salt 8% After recon. DHBS concentration is 0.16% Potassium Pyrophosphate: 47% (after recon. 1%)	NE	54970-72-8
Uric Acid Standard:		
Glycerol 5% Ethylene Glycol 20%	NE 50 ppm Ceiling	56-81-5 107-21-1

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: Contact with the Standard may cause irritation. Contact with the Uric Acid Reagent will cause irritation.

EYE CONTACT: Contact with the Standard or Uric Acid Reagent will cause irritation.

INGESTION: May be harmful if swallowed.

INHALATION: Uric Acid Reagent will cause irritation to mucous membranes and upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE:

Prolonged or repeated exposure to the Uric Acid Reagent may cause an allergic reaction in certain sensitive individuals.

Ethylene glycol (in standard): possible risk of reproductive disorders and developmental toxicity. ACGIH - not classified as a human carcinogen. Target organs: CNS, liver, eyes, kidneys, cardiovascular system.

Glycerol (in standard): Target organs: kidney. Effects on fertility.

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: **Ethylene glycol** (in standard) possible risk of reproductive disorders and developmental toxicity. ACGIH - not classified as a human carcinogen.

Glycerol (in standard): Effects on fertility.

SENSITIZATION TO PRODUCT: Prolonged or repeated exposure to the Uric

Acid Reagent may cause an allergic reaction in certain sensitive individuals.

SYNERGISTIC PRODUCTS: n.av.

LD50: Ethylene glycol 6 - 8.5 g/kg, oral rat.
LD50: DHBS n.av.
LD50: Glycerol 12.6 g/kg, oral rat
LD50: Potassium pyrophosphate SKN-RBT >4640 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: The Standard is a liquid, the Uric Acid Reagent is solid.
APPEARANCE AND ODOUR: The Standard is clear and colourless, the Uric Acid Reagent is an off white powder.
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: Uric Acid Reagent = 7.4, 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: May produce toxic fumes under fire conditions.

VII REACTIVITY DATA

STABLE: Yes
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY WITH OTHER SUBSTANCES: Uric Acid Reagent is incompatible with strong solutions of hydrogen peroxide.
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: Uric Acid Reagent - respirator recommended.

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: May 8, 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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