

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: **Glucose Trinder**

CATALOGUE NUMBER: **223-051, 223-50**

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 glucose.

II HAZARDOUS INGREDIENTS

	<u>ACGIH TLV</u>	<u>CAS</u>
Glucose Colour Reagent: n.ap.		
Glucose Standard: Ethylene Glycol 30%	50 ppm Ceiling	107-21-1

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: Colour Reagent is a solid, Standard is a liquid.
APPEARANCE AND ODOUR: Standard is clear and colourless, colour 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: Glucose Colour Reagent = 7.25, 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: Ethylene glycol: carbon dioxide and carbon monoxide

EXPLOSION DATA:

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Ethylene glycol: emits toxic fumes under fire conditions.

VII REACTIVITY DATA

STABLE: Yes
HAZARDOUS POLYMERIZATION: Will not occur

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: Standard and reagent may cause irritation.

EYE CONTACT: Standard causes irritation. Reagent may cause irritation.

INGESTION: Standard - harmful if ingested. Reagent may be harmful if swallowed.

INHALATION: Standard and reagent may cause irritation to mucous membranes and upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated exposure to the glucose Colour Reagent may cause an allergic reaction in certain sensitive individuals.

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

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY:

In standard - **Ethylene glycol**: possible risk of reproductive disorders and developmental toxicity. ACGIH - not classified as a human carcinogen.

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: Ethylene glycol 4700 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.

INCOMPATIBILITY WITH OTHER SUBSTANCES: Ethylene glycol: strong oxidizing agents, strong acids & bases, aldehydes, aluminum.

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: 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: 2-8°C

SHIPPING INFORMATION: Not regulated

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

PREPARED BY: Denise Bustard
PHONE NO: 902-566-1396
DATE: January 28, 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.

MSDS22350-6