

## MATERIAL SAFETY DATA SHEET

### I PRODUCT IDENTIFICATION AND USE

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

CHEMICAL/PRODUCT NAME: **Total Protein Assay Kit**

CATALOGUE NUMBER: **200-70, 200-55, 200-70-91, 217-17**

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 total protein.

### II HAZARDOUS INGREDIENTS

ACGIH TLV CAS

Total Protein Concentrate: n.ap.

To the best of our knowledge this product contains no hazardous ingredients as defined by OSHA or WHMIS.

### III TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY/EXPOSURE

SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x]  
INGESTION: [x] SKIN ABSORPTION [ ]

**EFFECTS OF ACUTE EXPOSURE:** None anticipated.

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:** None known

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY,  
REPRODUCTIVE TOXICITY, MUTAGENICITY: No data available.

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: n.av.

### 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: Clear blue  
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: 13  
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: None known

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: 18-26° C

**SHIPPING INFORMATION: Not regulated**

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

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DATE: May 29, 2001

*\* n.av. not available nap. 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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