



## 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

DISTRIBUTED BY: Equal Diagnostics, Inc.  
115 Summit Drive  
Exton, PA 19341  
1-800-999-6578

CHEMICAL/PRODUCT NAME: CO<sub>2</sub> *Ultra* Reagent

CATALOGUE NUMBER: **E598100, E598140**

NOTE: Physical and health hazard information on reagent mixtures has 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 CO<sub>2</sub> in human serum.

### II HAZARDOUS INGREDIENTS

	<u>ACGIH TLV</u>	(NE = Not Established)	<u>CAS</u>
Reagent 1: Trade Secret: Tris(hydroxymethyl)aminomethane 1% (w/v)	NE		77-86-1

### 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: Direct contact will cause irritation.

EYE CONTACT: Direct contact will cause irritation.

INGESTION: Harmful if ingested.

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

EFFECTS OF CHRONIC EXPOSURE: None anticipated.

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

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: Tris 5900 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: Liquid  
APPEARANCE AND ODOUR: Clear liquid, yellow in colour  
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: 7.5@ 25° C  
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: 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: October 15, 2001

*\* 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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