

## MATERIAL SAFETY DATA SHEET

### I PRODUCT IDENTIFICATION AND USE

PRODUCT: **AMMONIA STANDARD**  
MANUFACTURER:

Diagnostic Chemicals Limited  
16 McCarville Street  
West Royalty Industrial Park  
Charlottetown, Prince Edward island  
Canada C1E-2A6  
+1-902-566-1396

CHEMICAL/PRODUCT NAME: **AMMONIA STANDARD (294µmol/L / 5.0 µg/ml)**  
CATALOGUE NUMBER: **200-02H**  
PRODUCT USE: **For use as a standard in determination of ammonia in plasma.**  
DATE OF MSDS PREPARATION: August 20,2003  
MSDS PREPARED BY: Cathie MacNeill  
EMERGENCY TELEPHONE NO.: **+1-902-566-1396**

### II COMPOSITION, INGREDIENT INFORMATION

#### CHEMICAL IDENTIFICATION

Ammonia Standard

#### CAS REGISTRY NUMBER

not applicable

### III HAZARDOUS IDENTIFICATION

#### EMERGENCY OVERVIEW

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.

#### POTENTIAL HEALTH EFFECTS:

ROUTE OF ENTRY/EXPOSURE:

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

#### EFFECTS OF ACUTE EXPOSURE TO PRODUCTS:

EYES: May cause delayed irritation if eye(s) not washed thoroughly.  
SKIN: May cause irritation.  
INHALATION: May cause irritation to mucous membranes and upper respiratory tract.  
INGESTION: May be harmful if swallowed.

#### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

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

### IV FIRST AID MEASURES

EYES: If reagent comes into contact with 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.  
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.

### V FIRE AND EXPLOSION HAZARDS

FLAMMABLE: No  
FLASH POINT: not applicable  
FLAMMABLE LIMITS (% in Air): Lower: not applicable  
Upper: not applicable  
EXTINGUISHING AGENTS: As appropriate for fire in surrounding materials.

AUTOIGNITION TEMPERATURE: not applicable  
HAZARDOUS COMBUSTION PRODUCTS: not applicable  
EXPLOSION DATA: not applicable

### VI ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL:  
Clean up spill with sponge. Wash spill area with appropriate cleaning materials.

**Dispose of spilled and contaminated material in accordance with federal, provincial, state, and local regulations.**

### VII HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: Do not get in eyes, on skin, or clothing. Wash thoroughly after handling.  
STORAGE REQUIREMENTS: **2-8°C**

### VIII EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust not required  
PERSONAL PROTECTIVE EQUIPMENT (PPE): Lab coat, safety glasses, and impervious gloves.  
RESPIRATORY PROTECTION: None required.  
EXPOSURE LIMITS: not available

## **IX PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid  
APPEARANCE: 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: 2.0  
COEFFICIENT OF OIL/WATER DISTRIBUTION: not available

## **X STABILITY AND REACTIVITY**

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

## **XI TOXICOLOGICAL INFORMATION**

LD<sub>50</sub>: not available  
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

## **XII ECOLOGICAL INFORMATION**

Not harmful to aquatic and marine organisms.

## **XIII 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.**

## **XIV TRANSPORT INFORMATION**

SPECIAL SHIPPING INFORMATION: Not Regulated

## **XV REGULATORY INFORMATION**

The product does not contain ingredients listed as dangerous substances in Annex I of Directive 67/548/EEC  
Labelling: No European/International symbol required

### **RISK PHRASES**

No Risk phrase required.

### **SAFETY PHRASES**

S 24/25 Avoid contact with skin and eyes.

## **XVI 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 pollution.**