

# Material Safety Data Sheet

## Ammonia Standard

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ammonia Standard Set (Level 1, Level 2, Level 3)

**Catalog Numbers:** Level 1: TR60901, BU6091-BP, UV6091xxxx-BP, VC6091xxxx, VT6091xxxx;  
Level 2: TR60901, BU6092-BP, UV6092xxxx-BP, VC6092xxxx, VT6092xxxx;  
Level 3: TR60901, BU6093-BP, UV6093xxxx-BP, VC6093xxxx, VT6093xxxx;

**Use:** These standards are intended for the calibration and control of Ammonia assays. It is for in vitro diagnostic use only.

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### 2. HAZARD IDENTIFICATION

Not Classified as hazardous according to the ASCC/NOHSC/EU criteria

**Hazard Classification:** NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

**Hazard Category:** None allocated

**RISK PHRASES**

None allocated

**SAFETY PHRASES**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Poison Schedule:** None allocated [Aust].

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
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All ingredients in this product are not hazardous according to the ASCC/NOHSC/EU criteria.

### 4. FIRST AID MEASURES

**Swallowed:** If swallowed, **DO NOT** induce vomiting. Give 3 to 4 glasses of water to drink. Seek immediate medical assistance.

**Eye:** If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

**Skin:** If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

**Inhaled:** Move victim to fresh air. Apply resuscitation if victim is not breathing.

**First Aid Facilities:** Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor:** Treat symptomatically.

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### 4. FIRST AID MEASURES

In case of poisoning, contact Poisons Information Centre

**In Australia call Tel: 131126**

**In New Zealand Tel: 034747000**

### 5. FIRE-FIGHTING MEASURES

#### **Fire/Explosion Hazard**

If safe to do so, move undamaged containers from fire area.

**Hazardous Decomposition Products:** Decomposes on heating emitting oxides of carbon and oxides of nitrogen.

**Fire Fighting Procedures:** Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

**Extinguishing Media:** Use extinguishing media suitable for surrounding fire situation.

**Hazchem Code:** None allocated

#### **Flammability**

This material is not a flammable or combustible liquid.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Emergency Procedures:**

Keep unnecessary people away; Isolate hazard area and deny entry. If product spills onto floors it will represent a slip hazard, walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

#### **Methods and Materials for Containment and Clean Up Procedures:**

Dike area using with an absorbent such as diatomaceous earth - to prevent run off into drains and waterways. Throw further absorbent (diatomaceous earth or other inert material) on top of spill, then shovel up and seal in properly labeled containers for disposal.

### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling:**

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. For further information please refer to the Engineering Controls of this MSDS.

#### **Conditions for Safe Storage:**

Keep containers tightly closed, when not using this product. Store at 10-25°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packaging, as approved by manufacturer.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Standards**

No exposure standards are available for this product:

#### **Engineering Controls**

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

#### **Personal Protection Equipment**

**GLOVES:** PVC or natural rubber.

**EYES:** Chemical goggles or faceshield to protect eyes.

**RESPIRATORY PROTECTION:** Avoid breathing of vapours/mists. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a half-face organic vapour respirator is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear liquid with no odour.
<b>Boiling Point:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not available.
<b>Specific Gravity:</b>	Not available.
<b>Flash Point:</b>	Not applicable.
<b>Flammability Limits:</b>	Not applicable.
<b>Solubility in Water:</b>	Completely miscible.

#### Other Properties

<b>pH:</b>	7.4 - 7.8
<b>% Volatiles:</b>	> 85 %
<b>Osmolality:</b>	23 to 28 mOsm/kg

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Incompatibles.

**Incompatible Materials:** Strong mineral acids (sulfuric, nitric and hydrochloric).

**Hazardous Decomposition Products:** Decomposes on heating emitting oxides of carbon and oxides of nitrogen.

**Hazardous Reactions:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product.

#### Acute Health Effects

**Swallowed:** Drinking large quantities of this product may cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

**Eye:** May cause irritation to the eyes, with effects including: tearing and blurred vision. These effects are anticipated to be of a short acting nature and no long term injury is anticipated, ***if the product is removed promptly.***

**Skin:** May cause irritation to the skin, with effects including; Redness and itchiness.

**Inhaled:** Mists from the product may cause irritation to the nose, throat and respiratory system.

**Chronic:** Prolonged or repeated skin contact may lead to dermatitis.  
Prolonged or repeated exposure may lead to irreversible damage to health.

### 12. ECOLOGICAL INFORMATION

No ecological information available for this product.

**Ecotoxicity:** No information for product.

**Mobility:** No information for product.

**Persistence / Degradability:** No information for product.

**Chemical Fate Information:** No information available.

Do not dispose of large quantities to waterways, drains or sewers.

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### 13. DISPOSAL CONSIDERATIONS

**Methods of Disposal:**

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor.

**Packaging:**

Containers of this material may retain product residues. Handle contaminated packaging in the same way as the substance itself, by disposing in accordance with all applicable federal, state and local environmental and hazardous waste regulations.

### 14. TRANSPORT INFORMATION

**UN Number:** None allocated

**Proper Shipping Name:** NONE ALLOCATED

**Dangerous Goods Class:** None allocated

**Subsidiary risk:** None allocated

**Packing Group:** None allocated

**Hazchem Code:** None allocated

**Label:** None allocated

**Road and Rail Transport:**

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals.

**Air Transport:**

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**Marine Transport:**

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

### 15. REGULATORY INFORMATION

**Poison Schedule:** None allocated [Aust].

**Inventory Status:**

Australia (AICS)	Y
United States (TSCA)	Y
Canada (DSL)	Y
Europe (EINECS/ELINCS)	Y

Y = all ingredients are on the inventory.

If approved for European Communities use, this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

### 16. OTHER INFORMATION

**Issue date:** August, 2006

**Key Legend Information:**

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

ASCC - Australian Safety and Compensation Council [Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997) [Aust]

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### 16. OTHER INFORMATION

EPA - Environmental Protection Agency [Int]  
NIOSH - National Institute for Occupational Safety and Health [US]  
TSCA - Toxic Substances Control Act [US]  
OSHA - Occupational Safety and Health Administration [US]  
AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]  
AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]  
Hazchem Code - Fire fighters designation [Aust]  
IATA - International Aviation Transport Authority [Int]  
ICAO - International Civil Aviation Organization [Int]  
IMO - International Maritime Organisation. [Int]  
IMDG - International Maritime Dangerous Goods [Int]  
United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]  
EINECS - European Inventory of Existing Commercial Chemical Substances. [Int]  
ELINCS - European List of Notified Chemical Substances. [Int]  
EU - European Union [Int]

**EU Directives:** The classification criteria used, are adopted from the European Community's (EC) legislation for classifying dangerous substances. The criteria are taken from:

EC Council Directive 67/548/EEC  
EC Council Directive 1999/45/EC

[Aust/NZ] = Australian New Zealand  
[Int] = International  
[US] = United States of America

#### **Principal References:**

Information supplied by manufacturer, reference sources including the public domain.

#### **Disclaimer**

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used. Responsibilities of the supplier associated with this product are outlined in our standard terms and conditions, a copy of which is sent to customers and is available on request.

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**END OF MSDS**