

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product (material) Name:** Jewellery cleaner concentrate. Catalogue # M037.

**Other Names:**

**Recommended Use:** Used to clean jewellery.

**Supplier Name:**

**ProSciTech**

**Postal Address:** PO Box 111, Thuringowa Central Qld. 4817 Australia

**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia

**Telephone Number:** (07) 4773 9444

**Fax Number:** (07) 4773 2244

**Emergency Contact:** (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC.

**Risk Phrases:** R23: Toxic by inhalation. R25: Toxic if swallowed. R34: Causes burns. R50: Very toxic to aquatic organisms. R51: Keep locked up.

**Safety Phrases:** S38: If insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell seek medical advice immediately. S61: Avoid release into environment. Refer to special instructions/safety data sheet. S64: If swallowed, rinse mouth with water (only if person is conscious). S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

## SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

**SUBSTANCE:**

**Chemical Identity:** Ammonia solution 25%

**Common Name(s):**

**CAS Number(s):**

**MIXTURE:**

Ingredients	Cas Number(s)	Proportion (%)
Ammonium hydroxide	1336-21-6	30-60
Ammonia	7664-41-7	10-30

## SECTION 4 - FIRST AID MEASURES

**Swallowed:** DO NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.

**Eye:** Flush eyes with plenty of water while holding eyelids open. Seek immediate medical attention.

**Skin:** Wash affected area with plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention.

**Inhaled:** Remove person to fresh air. Give artificial respiration if not breathing. Seek immediate medical attention.

**First Aid Facilities:** Eyebath and Safety shower.

**Medical Attention & Special Treatment:** Treat symptomatically.

ADDITIONAL INFORMATION:

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use appropriate fire extinguisher for surrounding environment.

**Hazards from Combustion Products:** Toxic fumes including ammonia and nitrogen oxides are emitted under fire conditions.

**Precautions for Fire Fighters:** Wear full protective clothing and self-contained breathing apparatus.

**Hazchem Code:** 2R

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### Emergency Procedures:

#### Containment and clean up:

Wear appropriate protective equipment and clothing to avoid contact with material. Remove all sources of heat and ignition from the area. Ventilate the area. Contain the spill with an absorbent inert material (e.g. sand). Place into a sealable container for waste disposal.

## SECTION 7 - HANDLING & STORAGE

### Precautions for Safe Handling:

Use in a well ventilated area. Avoid contact with material by wearing appropriate protective equipment. Do not use near sources of heat and ignition. Wash hands thoroughly after handling.

### Conditions for Safe Storage:

Store in a cool, dry, well ventilated area away from heat, sources of ignition, incompatible materials and out of direct sunlight. Keep containers tightly closed when not in use.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards:

Ammonia: STEL 24(mgm3), STEL 35(ppm), TWA 17(mgm3), TWA 25(ppm).

### Biological Limit Values:

No biological limit allocated.

### Engineering Controls:

Provide ventilation.

### Personal Protective Equipment:

NIOSH/MSHA approved respiratory equipment should be used, if necessary. Wear safety glasses with side shields, goggles or fullface shield. Impervious gloves, nitrile rubber or neoprene. Protective clothing, plastic aprons, rubber boots.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

### Appearance:

Clear, colourless liquid.

### Odour:

Ammonia odour.

### pH:

13.8 (29% solution)

### Vapour pressure:

115mmHg at 20°C

### Vapour density:

(air = 1) 580 mmHg at 20°C

### Boiling point/range:

651°C

### Freezing/melting point:

72°C

### Solubility:

Soluble

### Specific gravity or density:

0.9

### Flash Point:

Not available.

### Flammable (explosive) limits:

Lower: 16% Upper: 25%

### Ignition temperature:

Not available

### Additional Information:

## SECTION 10 - STABILITY AND REACTIVITY

### Chemical stability:

Stable.

### Conditions to avoid:

Heat, direct sunlight, open flames or other sources of ignition.

### Incompatible Materials:

Acids, acrolein, dimethyl sulphate, silver nitrate, halogens, dimethyl sulphate, propylene oxide, nitromethane, silver oxide, silver permanganate, oleum, beta-propiolactone and most common metals. Ammonia and nitrogen oxides.

### Hazardous Decomposition Products:

### Hazardous Reactions:

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Acute and chronic health effects:</b>	Oral: LD50 rat 350mg/kg. Eye: standard Draize test rabbit 250ug, severe. Inhalation: LD50rat 2000ppm/4hrs.
<b>Possible routes of exposure:</b>	Inhalation, ingestion, skin/eye contact.
<b>Range of effects following exposure:</b>	Toxic if inhaled or swallowed. Ingestion will irritate the gastric tract causing nausea and vomiting, abdominal pain and chemical burns to the mouth, throat and stomach. Inhalation will cause irritation to nose, throat and respiratory system. Brief exposure to 500ppm can be fatal. Contact with skin causes redness, itching, irritation, severe pain and chemical burns with tissue destruction. Eye contact can cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
<b>Dose likely to cause injury:</b>	Inhalation over 500ppm
<b>Delayed effects:</b>	Repeated exposure can cause damage to the tissues of the mucous membranes, upper respiratory tract, eyes and skin.
<b>Relevant negative data:</b>	

**SECTION 12 – ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Very toxic to aquatic organisms.
<b>Persistence and degradability:</b>	
<b>Mobility:</b>	
<b>Additional Information:</b>	

**SECTION 13 - DISPOSAL CONSIDERATIONS**

<b>Disposal Methods:</b>	Dispose of waste according to Federal, State and Local Regulations. Do not flush spill residue to drains or water ways.
<b>Special Precautions:</b>	

**SECTION 14 - TRANSPORT INFORMATION**

<b>UN Number:</b>	UN2672
<b>UN Proper Shipping Name:</b>	Corrosive.
<b>Class and Subsidiary risk:</b>	8
<b>Packing Group:</b>	III
<b>Special Precautions for User:</b>	
<b>Hazchem Code:</b>	2R

**SECTION 15 - REGULATORY INFORMATION**

<b>Poison Schedule Number:</b>	None allocated
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**SECTION 16 - OTHER INFORMATION**

<b>Date of preparation of MSDS:</b>	25 September 2007
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