

## ULTRASIL 75

### 1. Identification of the material and supplier

#### Names

Product name : ULTRASIL 75  
 ADG : NITRIC ACID  
 Supplier : ECOLAB PTY LTD (A.B.N. 59 000 449 990)  
 6 Hudson Ave, Castle Hill NSW 2154  
 Customer Service phone: 1 800 022 002  
 Free Fax Number: 1 800 655 679

Emergency telephone number : 1 800 124 170

#### Uses

Material uses : Cleaning product  
 Date of issue : 12-August-2005

### 2. Hazards identification

Statement of hazardous/dangerous nature : Classified as hazardous according to the criteria of NOHSC and classified as dangerous goods according to the ADG Code.  
 Risk Phrases : R8- Contact with combustible material may cause fire.  
 R35 - Causes severe burns.  
 Safety Phrases : S17- Keep away from combustible material.  
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S28- After contact with skin, wash immediately with plenty of water.  
 S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.  
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 3. Composition/information on ingredients

| Ingredient name | CAS number | Concentration |
|-----------------|------------|---------------|
| Nitric acid     | 7697-37-2  | 30 - 60       |
| Phosphoric acid | 7664-38-2  | 10 - <30      |

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

### 4. First aid measures

#### First aid measures

Eye contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.

Ingestion : Do not induce vomiting. Get medical attention immediately. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). Rinse mouth; then drink one or two large glasses of water. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

## 5. Fire-fighting measures

|  |   |
|--|---|
| Hazchem code                                   | : 2PE   |
| Extinguishing media                            | : Use an extinguishing agent suitable for surrounding fires.  |
| Fire/explosion hazards                         | : Oxidising agent. Contact with combustible material may cause fire.  |
| Special protective equipment for fire-fighters | : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hazardous Decomposition Products               | : nitrogen oxides (NO, NO <sub>2</sub> ...), phosphates   |

## 6. Accidental release measures

|                           |  |
|---------------------------|--|
| Personal Precautions      | : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).   |
| Environmental precautions | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  |
| Methods for cleaning up   | : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. |

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

|          |   |
|----------|---|
| Handling | : Do not add water directly to product. Slowly stir product into water. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.   |
| Storage  | : Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from incompatibles, such as reducing material, combustible material, organic material, alkali, metals. |

## 8. Exposure controls/personal protection

### Occupational exposure limits

| <u>Ingredient name</u> | <u>Exposure limits</u>  |
|------------------------|---|
| Nitric acid            | NOHSC (Australia, 7/2003).<br>STEL: 10 mg/m <sup>3</sup> 15 minute(s). Form: All forms<br>STEL: 4 ppm 15 minute(s). Form: All forms<br>TWA: 5.2 mg/m <sup>3</sup> 8 hour(s). Form: All forms<br>TWA: 2 ppm 8 hour(s). Form: All forms   |
| Phosphoric acid        | NOHSC (Australia, 5/2003).<br>STEL: 3 mg/m <sup>3</sup> 15 minute(s). Form: All forms<br>TWA: 1 mg/m <sup>3</sup> 8 hour(s). Form: All forms  |
| Engineering measures   | : Local exhaust ventilation should be provided.   |
| Hygiene measures       | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |

### Personal protection

|             |  |
|-------------|--|
| Eyes        | : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.   |
| Hands       | : Use chemical resistant, impervious gloves. Recommended: Elbow length PVC gloves.   |
| Respiratory | : If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716. |
| Skin        | : Use synthetic apron, other protective equipment as necessary to prevent skin contact.  |

## 9 . Physical and chemical properties

|                  |  |
|------------------|--|
| Physical state   | : Liquid.                                  |
| Colour           | : Light Straw colour.                      |
| Odour            | : Faint Odour                              |
| Boiling point    | : >100 °C                                  |
| Melting point    | : Not available.                           |
| Vapour pressure  | : Not available.                           |
| Specific gravity | : 1.365 (Water = 1)                        |
| Flash point      | : Product does not support combustion.     |
| Vapour density   | : Not available.                           |
| pH               | : 1 (100%)                                 |
| Solubility       | : Easily soluble in cold water, hot water. |

## 10 . Stability and reactivity

|                                  |   |
|----------------------------------|---|
| Stability                        | : The product is stable under normal ambient conditions of temperature and pressure.  |
| Conditions to Avoid              | : Direct sunlight.  |
| Materials to avoid               | : reducing material, combustible material, organic material, alkali, metals   |
| Hazardous Decomposition Products | : nitrogen oxides (NO, NQ...), phosphates   |
| Hazardous Reactions              | : May generate heat on contact with water. May react vigorously with reducing agents, possibly with the risk of combustion. May react vigorously with alkalies. |

## 11 . Toxicological information

### Potential acute health effects

|              |   |
|--------------|---|
| Inhalation   | : Severely corrosive to the respiratory system. |
| Ingestion    | : Causes severe burns.                          |
| Skin Contact | : Severely corrosive to the skin.               |
| Eye contact  | : Severely corrosive to the eyes.               |

### Potential chronic health effects

|                       |   |
|-----------------------|---|
| Carcinogenicity       | : No known significant effects or critical hazards. |
| Mutagenicity          | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |

## 12 . Ecological information

|                           |   |
|---------------------------|---|
| Ecotoxicity data          | : Not available.                                    |
| Persistence/degradability | : Not available.                                    |
| Mobility                  | : Not available.                                    |
| Other adverse effects     | : No known significant effects or critical hazards. |

## 13 . Disposal considerations

|                     |   |
|---------------------|---|
| Methods of disposal | : Do not reuse product container. The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of via a licensed waste disposal contractor. |
|---------------------|---|

## 14 . Transport information

| Regulation | UN number | Proper shipping name | Class | Packing group | Additional Information                                    |
|------------|-----------|----------------------|-------|---------------|---|
| ADG        | UN2031    | NITRIC ACID          | 8     | II            | Hazchem code: 2PE<br>Initial emergency response guide: 40 |
| IMDG       | UN2031    | NITRIC ACID          | 8     | II            | <u>Emergency schedules (EmS)</u><br>F-A, S-B              |

## 15 . Regulatory information

Australian Inventory Status : All substances are listed on AICS or exempt.

AU Classification : C - Corrosive

R8- Contact with combustible material may cause fire.

R35 - Causes severe burns.

Standard for the Uniform Scheduling of Drugs and Poisons

Schedule: S6.

Control of Scheduled Carcinogenic Substances

Ingredient name

Schedule

No listed substance

## 16 . Other information

Prepared by : Regulatory Affairs

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Change Made : New format.

References :

- ADG Code - Australian Transport of Dangerous Goods
- Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment
- Approved Criteria for Classifying Hazardous Substances
- List of Designated Hazardous Substances
- National Code of Practice for the Labelling of Workplace Substances
- National Code of Practice for the Preparation of Material Safety Data Sheets
- National Model Regulations for the Control of Scheduled Carcinogenic Substances
- National Model Regulations for the Control of Workplace Hazardous Substances
- Standard for the Uniform Scheduling of Drugs and Poisons

### Disclaimer

*The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.*