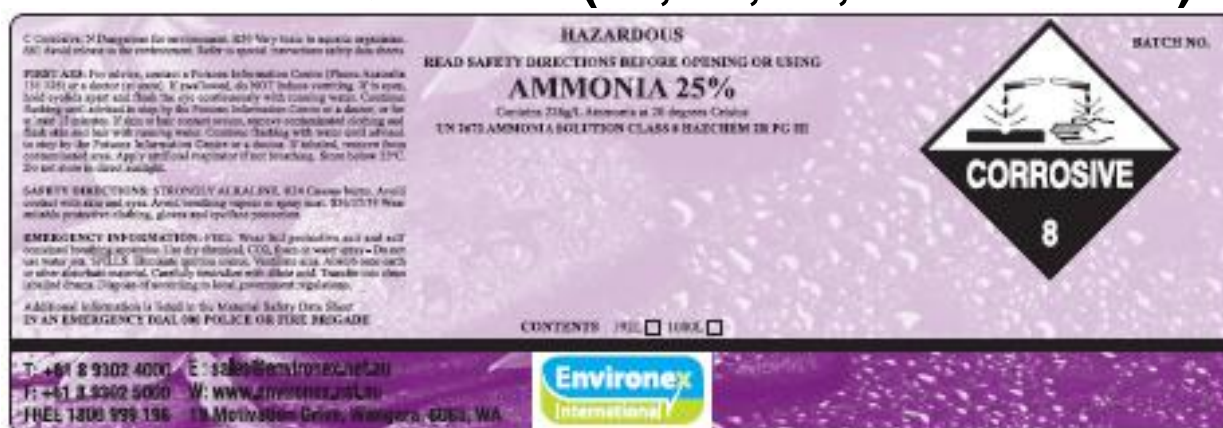


# TECHNICAL BULLETIN



19 Motivation Dve Wangara, WA, 6065 AUSTRALIA  
T +61 8 9302 4000 | FREE 1800 999 196 | F +61 8 9302 5000

## AMMONIA AQUEOUS (25, 23, 21, 15 AND 10%)



### DESCRIPTION

**Ammonia Solution** 10-35%(Ammonium Hydroxide Solution, Liquid Ammonia, Aqua ammonia)

**Strength** : Available as 10, 15, 21, 23, 25% w/w NH<sub>3</sub>

**Appearance**: Water clear liquid with pungent odour

### PHYSICAL DESCRIPTION/ PROPERTIES

| Ammonia Concn, % NH <sub>3</sub><br>m/m        | 25                  | 23     | 21     | 15     |
|--|---------------------|--------|--------|--------|
| Ammonia Concn, NH <sub>3</sub> g/L at<br>15.5C | 228                 | 211    | 194    | 141    |
| Boiling Point (°C):                            | 36.1                | 40.6   | 45.5   | 58.7   |
| Melting Point (°C):                            | -57.5               | -48.2  | -40.3  | -22.6  |
| SG at 15.5C                                    | 0.9106              | 0.9166 | 0.9230 | 0.9425 |
| Heat of Solution, Joules/g                     | 741                 | 750.5  | 760    | 782.5  |
| Vapour Pressure at 55C, kPa                    | 202.8               | 173    | 148    | 90     |
| Vapour Pressure at 50C, kPa                    | 170.7               | 145    | 124    | 74.6   |
| Vapour Pressure at 15.5C,<br>kPa               | 42.9                | 33.4   | 29.4   | 16.2   |
| Flammability Limits (%): LEL -                 | 16%; UEL - 27 %     |        |        |        |
| Solubility in Water (g/L):                     | Completely miscible |        |        |        |

### DANGEROUS GOODS INFORMATION

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UN Number: 2672  
Hazchem Code: 2P  
Dangerous Goods Shipping Name: Ammonia Solutions  
Class: 8  
Poisons Schedule: 6

## CAUTION

Always read carefully the label on the Ammonia and the Material Safety Data Sheet for safe handling.

## PACKAGING

20 litre (18kg) & 192 litre (175kg) (steel Drum or plastic mauser), 1000L Bulki

## IMPORTANT NOTICE TO CUSTOMER

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***