



...advanced chemical  
solutions for industry...

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## B224 DISHWASH DETERGENT

Revision 9

Revision date 2015-06-16

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|              |                                                                                                |
|--------------|------------------------------------------------------------------------------------------------|
| Product name | B224 DISHWASH DETERGENT                                                                        |
| REACH        | ALL INGREDIENTS IN THIS FORMULATION HAVE BEEN REGISTERED (WHERE REQUIRED) FOR APPLICABLE USES. |

#### 1.3. Details of the supplier of the safety data sheet

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| Company                               | Assured Solutions Ltd                                                        |
| Address                               | Unit H<br>Westminster Industrial Estate<br>Measham<br>Derbyshire<br>DE12 7DS |
| Web                                   | www.chemicalsuppliers.uk.com                                                 |
| Telephone                             | +44 (0)1530 272922                                                           |
| Fax                                   | +44 (0)1530 272921                                                           |
| Email                                 | sales@assuredsolutionsltd.co.uk                                              |
| Email address of the competent person | sales@assuredsolutionsltd.co.uk                                              |

#### 1.4. Emergency telephone number

|                            |                                |
|----------------------------|--------------------------------|
| Emergency telephone number | 01530 272 922                  |
| Company                    | ASSURED SOLUTIONS LTD<br>24hrs |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

|                                      |                                  |
|--------------------------------------|----------------------------------|
| 2.1.1. Classification - 1999/45/EC   | C; R35<br>Symbols: C: Corrosive. |
| Main hazards                         | Causes severe burns.             |
| 2.1.2. Classification - EC 1272/2008 | Skin Corr. 1A: H314;             |

#### 2.2. Label elements

|                                     |                                                                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms                   |                                                                                                                                            |
| Signal Word                         | Danger                                                                                                                                     |
| Hazard Statement                    | Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.                                                                             |
| Precautionary Statement: Prevention | P102 - Keep out of reach of children.<br>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.<br>P264 - Wash thoroughly after handling. |

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## 2.2. Label elements

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary Statement: Response</b> | P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P301+P310 - IF SWALLOWED: IF SWALLOWED: Immediately call a POISON CENTER/doctor/ .<br>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P363 - Wash contaminated clothing before reuse. |
| <b>Precautionary Statement: Storage</b>  | P405 - Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Precautionary Statement: Disposal</b> | P501 - Dispose of contents/container to<br>P501 - Dispose of contents/container to REQUIREMENTS OF LOCAL AUTHORITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

| Chemical Name                               | Index No.    | CAS No.   | EC No.    | REACH Registration Number            | Conc. (%w/w) | Classification                    | M-factor. |
|---------------------------------------------|--------------|-----------|-----------|--------------------------------------|--------------|-----------------------------------|-----------|
| trisodium nitrilotriacetate                 | 607-620-00-6 | 5064-31-3 | 225-768-6 |                                      | 1 - 10%      | Carc. Cat. 3; R40 Xn; R22 Xi; R36 |           |
| Potassium hydroxide                         | 019-002-00-8 | 1310-58-3 | 215-181-3 | 01-2119487136-33<br>01-2119487136-33 | 1 - 10%      | Xn; R22 C; R35                    |           |
| BRIQUEST ADPA 60                            |              | 2809-21-4 |           | 01-2119510391-53                     | 1 - 10%      | C; R34                            |           |
| Sodium hypochlorite, solution...% Cl active | 017-011-00-1 | 7681-52-9 | 231-668-3 | 01-2119488154-34                     | 0 - 0.5%     | C; R34 R31 N; R50                 |           |
| Sodium hydroxide                            | 011-002-00-6 | 1310-73-2 | 215-185-5 | 01-2119457892-27                     | 0 - 0.5%     | C; R35                            |           |

## EC 1272/2008

| Chemical Name                               | Index No.    | CAS No.   | EC No.    | REACH Registration Number            | Conc. (%w/w) | Classification                                         | M-factor. |
|---------------------------------------------|--------------|-----------|-----------|--------------------------------------|--------------|--------------------------------------------------------|-----------|
| WATER                                       |              |           |           |                                      | 70 - 80%     |                                                        |           |
| trisodium nitrilotriacetate                 | 607-620-00-6 | 5064-31-3 | 225-768-6 |                                      | 1 - 10%      | Carc. 2: H351; Acute Tox. 4: H302; Eye Irrit. 2: H319; |           |
| Potassium hydroxide                         | 019-002-00-8 | 1310-58-3 | 215-181-3 | 01-2119487136-33<br>01-2119487136-33 | 1 - 10%      | Acute Tox. 4: H302; Skin Corr. 1A: H314;               |           |
| BRIQUEST ADPA 60                            |              | 2809-21-4 |           | 01-2119510391-53                     | 1 - 10%      | Met. Corr. 1: H290; Eye Dam. 1: H318;                  |           |
| Sodium hypochlorite, solution...% Cl active | 017-011-00-1 | 7681-52-9 | 231-668-3 | 01-2119488154-34                     | 0 - 0.5%     | Skin Corr. 1B: H314; Aquatic Acute 1: H400;            |           |
| Sodium hydroxide                            | 011-002-00-6 | 1310-73-2 | 215-185-5 | 01-2119457892-27                     | 0 - 0.5%     | Skin Corr. 1A: H314;                                   |           |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|                     |                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.                                         |
| <b>Eye contact</b>  | Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.                                                               |
| <b>Skin contact</b> | Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. |
| <b>Ingestion</b>    | Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.  |

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

|  |                                                               |
|--|---------------------------------------------------------------|
|  | Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam. |
|--|---------------------------------------------------------------|

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## 5.2. Special hazards arising from the substance or mixture

Corrosive. Burning produces irritating, toxic and obnoxious fumes.

## 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

### 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

### 6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

|                     |                                                  |                                                    |
|---------------------|--------------------------------------------------|----------------------------------------------------|
| Potassium hydroxide | WEL 8-hr limit ppm: -                            | WEL 8-hr limit mg/m3: -                            |
|                     | WEL 15 min limit ppm: -                          | WEL 15 min limit mg/m3: 2                          |
|                     | WEL 8-hr limit mg/m3 total -<br>inhalable dust:  | WEL 15 min limit mg/m3 total -<br>inhalable dust:  |
|                     | WEL 8-hr limit mg/m3 total -<br>respirable dust: | WEL 15 min limit mg/m3 total -<br>respirable dust: |
| Sodium hydroxide    | WEL 8-hr limit ppm: -                            | WEL 8-hr limit mg/m3: -                            |
|                     | WEL 15 min limit ppm: -                          | WEL 15 min limit mg/m3: 2                          |
|                     | WEL 8-hr limit mg/m3 total -<br>inhalable dust:  | WEL 15 min limit mg/m3 total -<br>inhalable dust:  |
|                     | WEL 8-hr limit mg/m3 total -<br>respirable dust: | WEL 15 min limit mg/m3 total -<br>respirable dust: |

### 8.2. Exposure controls

|                                         |                                                  |
|-----------------------------------------|--------------------------------------------------|
| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area. |
| 8.2.2. Individual protection measures   | Wear chemical protective clothing.               |
| Eye / face protection                   | Approved safety goggles.                         |
| Skin protection - Handprotection        | Chemical resistant gloves (PVC).                 |
| Respiratory protection                  | Wear: Self-contained breathing apparatus.        |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

|                       |               |
|-----------------------|---------------|
| Appearance            | Liquid        |
| Colour                | Colourless    |
| Odour                 | Mild          |
| pH                    | 13.5 NOMINAL  |
| Initial boiling point | 100           |
| Relative density      | 1.075 NOMINAL |

## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

|  |                                 |
|--|---------------------------------|
|  | Stable under normal conditions. |
|--|---------------------------------|

## 10.3. Possibility of hazardous reactions

|  |                              |
|--|------------------------------|
|  | Alkali metals. Strong acids. |
|--|------------------------------|

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

|                           |               |
|---------------------------|---------------|
| Skin corrosion/irritation | Causes burns. |
|---------------------------|---------------|

## SECTION 12: Ecological information

## 12.2. Persistence and degradability

|  |                                                                                                                                                                                                                                                                       |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | DETERGENTS IN THIS FORMULATION ARE >90% BIODEGRADABLE. Inorganic materials are inherently not biodegradable however those present in this formulation/product are either of no known significant environmental hazard or are readily neutralised to form inert salts. |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|


## SECTION 13: Disposal considerations

## General information

|  |                                                                   |
|--|-------------------------------------------------------------------|
|  | Dispose of in compliance with all local and national regulations. |
|--|-------------------------------------------------------------------|

## SECTION 14: Transport information

## Hazard pictograms

|  |                                                                                     |
|--|-------------------------------------------------------------------------------------|
|  |  |
|--|-------------------------------------------------------------------------------------|

## 14.1. UN number

|  |        |
|--|--------|
|  | UN1814 |
|--|--------|

## 14.2. UN proper shipping name

|  |                               |
|--|-------------------------------|
|  | POTASSIUM HYDROXIDE, SOLUTION |
|--|-------------------------------|

## 14.3. Transport hazard class(es)

|                 |   |
|-----------------|---|
| ADR/RID         | 8 |
| Subsidiary risk | - |
| IMDG            | 8 |
| Subsidiary risk | - |
| IATA            | 8 |
| Subsidiary risk | - |

## 14.4. Packing group

|               |    |
|---------------|----|
| Packing group | II |
|---------------|----|

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## 14.5. Environmental hazards

|                       |    |
|-----------------------|----|
| Environmental hazards | No |
| Marine pollutant      | No |

## ADR/RID

|                 |     |
|-----------------|-----|
| Hazard ID       | 80  |
| Tunnel Category | (E) |

## IMDG

|          |         |
|----------|---------|
| EmS Code | F-A S-B |
|----------|---------|

## IATA

|                                 |      |
|---------------------------------|------|
| Packing Instruction (Cargo)     | 855  |
| Maximum quantity                | 30 L |
| Packing Instruction (Passenger) | 851  |
| Maximum quantity                | 1 L  |

## SECTION 15: Regulatory information

## 15.2. Chemical safety assessment

|  |                                                                     |
|--|---------------------------------------------------------------------|
|  | No chemical Safety assessment has been carried out by the supplier. |
|--|---------------------------------------------------------------------|

## SECTION 16: Other information

## Other information

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision                               | This document differs from the previous version in the following areas:<br>2 - Precautionary Statement: Response.<br>2 - Precautionary Statement: Disposal.                                                                                                                                                                                                                                                                                                                                            |
| Text of risk phrases in Section 3      | R22 - Harmful if swallowed.<br>R31 - Contact with acids liberates toxic gas.<br>R34 - Causes burns.<br>R35 - Causes severe burns.<br>R36 - Irritating to eyes.<br>R40 - Limited evidence of a carcinogenic effect.<br>R50 - Very toxic to aquatic organisms.                                                                                                                                                                                                                                           |
| Text of Hazard Statements in Section 3 | Acute Tox. 4: H302 - Harmful if swallowed.<br>Eye Irrit. 2: H319 - Causes serious eye irritation.<br>Carc. 2: H351 - Suspected of causing cancer .<br>Met. Corr. 1: H290 - May be corrosive to metals.<br>Eye Dam. 1: H318 - Causes serious eye damage.<br>EUH031 - Contact with acids liberates toxic gas.<br>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.<br>Aquatic Acute 1: H400 - Very toxic to aquatic life.<br>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. |

## Further information

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|