



...advanced chemical  
solutions for industry...

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## A114 GLASS CLEANING SOLUTION

Revision 11

Revision date 2015-08-11

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

#### 1.1. Product identifier

|              |                                                                                                |
|--------------|------------------------------------------------------------------------------------------------|
| Product name | A114 GLASS CLEANING SOLUTION                                                                   |
| 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   | Xi; R36/38<br>Symbols: Xi: Irritant. |
| Main hazards                         | Irritating to eyes and skin.         |
| 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:<br/>Response</b><br><br><b>Precautionary Statement:<br/>Storage</b><br><br><b>Precautionary Statement:<br/>Disposal</b> | P280 - Wear protective gloves/protective clothing/eye protection/face protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                     | P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.<br>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<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. |
|                                                                                                                                                     | P405 - Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                     | P501 - Dispose of contents/container to rEQUIREMENTS OF LOCAL AUTHORITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## 2.3. Other hazards

|                      |                                  |
|----------------------|----------------------------------|
| <b>Other hazards</b> | SPILLAGE MAY CREATE SLIP HAZARD. |
|----------------------|----------------------------------|

## 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. |
|-------------------------------------------------------------------------|--------------|------------|-----------|--------------------------------------|--------------|-----------------------------------|-----------|
| WATER                                                                   |              |            |           |                                      | 80 - 90%     |                                   |           |
| trisodium nitrilotriacetate                                             | 607-620-00-6 | 5064-31-3  | 225-768-6 |                                      | 0.5 - 1%     | Carc. Cat. 3; R40 Xn; R22 Xi; R36 |           |
| 2 BUTOXY ETHANOL<br>(2-Butoxyethanol)                                   |              | 111-76-2   | 203-905-0 | 01-2119475108-36                     | 1 - 10%      | Xn; R20/21/22 Xi; R36/38          |           |
| SODIUM METASILICATE PENTA<br>HYDRATE                                    |              | 6834-92-0  | 229-912-9 | 01-2119449811-37<br>01-2119449811-37 | 1 - 10%      | C; R34                            |           |
| TETRA POTASSIUM<br>PYROPHOSPHATE                                        |              | 7320-34-5  | 230-785-7 | 01-2119489369-18                     | 1 - 10%      | Xi; R36                           |           |
| ALCOHOL ETHOXYLATE                                                      |              | 68439-46-3 |           |                                      | 0.5 - 1%     | Xn; R22 Xi; R41                   |           |
| POTASSIUM SALT OF ARYL<br>ETHER PHOSPHATE ESTER                         |              | 72283-31-9 |           |                                      | 0.5 - 1%     | Xi; R36/38                        |           |
| Sodium hydroxide                                                        | 011-002-00-6 | 1310-73-2  | 215-185-5 | 01-2119457892-27                     | 0 - 0.5%     | C; R35                            |           |
| PROPYLENE GLYCOL<br>(Propane-1,2-diol total vapour and<br>particulates) |              | 57-55-6    | 200-338-0 | 01-2119456809-23                     | 0 - 0.5%     |                                   |           |
| PERFUME                                                                 |              |            |           |                                      | 0 - 0.5%     |                                   |           |
| DYE                                                                     |              |            |           |                                      | 0 - 0.5%     |                                   |           |

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## 3.2. Mixtures

## EC 1272/2008

| Chemical Name                                                           | Index No.    | CAS No.    | EC No.    | REACH Registration Number            | Conc. (%w/w) | Classification                                                                                       | M-factor. |
|-------------------------------------------------------------------------|--------------|------------|-----------|--------------------------------------|--------------|------------------------------------------------------------------------------------------------------|-----------|
| WATER                                                                   |              |            |           |                                      | 80 - 90%     |                                                                                                      |           |
| trisodium nitrilotriacetate                                             | 607-620-00-6 | 5064-31-3  | 225-768-6 |                                      | 0.5 - 1%     | Carc. 2: H351; Acute Tox. 4: H302; Eye Irrit. 2: H319;                                               |           |
| 2 BUTOXY ETHANOL<br>(2-Butoxyethanol)                                   |              | 111-76-2   | 203-905-0 | 01-2119475108-36                     | 1 - 10%      | Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; |           |
| SODIUM METASILICATE PENTA<br>HYDRATE                                    |              | 6834-92-0  | 229-912-9 | 01-2119449811-37<br>01-2119449811-37 | 1 - 10%      | Met. Corr. 1: H290; Skin Corr. 1B: H314; Eye Dam. 1: H318; STOT SE 3: H335;                          |           |
| TETRA POTASSIUM<br>PYROPHOSPHATE                                        |              | 7320-34-5  | 230-785-7 | 01-2119489369-18                     | 1 - 10%      | Eye Irrit. 2: H319;                                                                                  |           |
| ALCOHOL ETHOXYLATE                                                      |              | 68439-46-3 |           |                                      | 0.5 - 1%     | Acute Tox. 4: H302; Eye Dam. 1: H318;                                                                |           |
| POTASSIUM SALT OF ARYL<br>ETHER PHOSPHATE ESTER                         |              | 72283-31-9 |           |                                      | 0.5 - 1%     | Skin Irrit. 2: H315; Eye Irrit. 2: H319;                                                             |           |
| Sodium hydroxide                                                        | 011-002-00-6 | 1310-73-2  | 215-185-5 | 01-2119457892-27                     | 0 - 0.5%     | Skin Corr. 1A: H314;                                                                                 |           |
| PROPYLENE GLYCOL<br>(Propane-1,2-diol total vapour and<br>particulates) |              | 57-55-6    | 200-338-0 | 01-2119456809-23                     | 0 - 0.5%     |                                                                                                      |           |
| PERFUME                                                                 |              |            |           |                                      | 0 - 0.5%     |                                                                                                      |           |
| DYE                                                                     |              |            |           |                                      | 0 - 0.5%     |                                                                                                      |           |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|              |                                                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | May cause irritation to mucous membranes. Move the exposed person to fresh air.                                                                                           |
| Eye contact  | May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.   |
| Skin contact | May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. |
| Ingestion    | May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.                                               |

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

|  |                                                                         |
|--|-------------------------------------------------------------------------|
|  | Use extinguishing media appropriate to the surrounding fire conditions. |
|--|-------------------------------------------------------------------------|

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

|  |                                                         |
|--|---------------------------------------------------------|
|  | Burning produces irritating, toxic and obnoxious fumes. |
|--|---------------------------------------------------------|

## 5.3. Advice for firefighters

|  |                                                     |
|--|-----------------------------------------------------|
|  | Wear suitable respiratory equipment when necessary. |
|--|-----------------------------------------------------|

## SECTION 6: Accidental release measures

## 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. Sweep up. 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. Adopt best Manual Handling considerations when handling, |
|--|--------------------------------------------------------------------------------------------|

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## 7.1. Precautions for safe handling

carrying and dispensing.

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

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

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

|                                                                         |                                                  |                                                    |
|-------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| 2 BUTOXY ETHANOL<br>(2-Butoxyethanol)                                   | WEL 8-hr limit ppm: 25                           | WEL 8-hr limit mg/m3: 123                          |
|                                                                         | WEL 15 min limit ppm: 50                         | WEL 15 min limit mg/m3: 101.2                      |
|                                                                         | 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: - |
| PROPYLENE GLYCOL<br>(Propane-1,2-diol particulates)                     | WEL 8-hr limit ppm: -                            | WEL 8-hr limit mg/m3: 10                           |
|                                                                         | WEL 15 min limit ppm: -                          | WEL 15 min limit mg/m3: -                          |
|                                                                         | 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: - |
| PROPYLENE GLYCOL<br>(Propane-1,2-diol total vapour<br>and particulates) | WEL 8-hr limit ppm: 150                          | WEL 8-hr limit mg/m3: 474                          |
|                                                                         | WEL 15 min limit ppm: -                          | WEL 15 min limit mg/m3: -                          |
|                                                                         | 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: - |

DNEL: Derived no-effect level.

## Exposure Pattern - Workers

|                  |                                       |                       |                                 |          |
|------------------|---------------------------------------|-----------------------|---------------------------------|----------|
| 2 BUTOXY ETHANOL | Acute inhalation - Systemic effects   | 663 mg/m <sup>3</sup> | Acute dermal - Systemic effects | 89 mg/kg |
|                  | Acute inhalation - Local effects      | 246 mg/m <sup>3</sup> |                                 |          |
|                  | Long-term - dermal - Systemic effects | 75 mg/kg              |                                 |          |

## Exposure Pattern - General population

|                  |                                        |                       |                                       |            |
|------------------|----------------------------------------|-----------------------|---------------------------------------|------------|
| 2 BUTOXY ETHANOL | Acute inhalation - Systemic effects    | 426 mg/m <sup>3</sup> | Acute oral - Systemic effects         | 13.4 mg/kg |
|                  | Acute dermal - Systemic effects        | 44.5 mg/kg            |                                       |            |
|                  | Long-term - inhalation - Local effects | 123 mg/kg             | Long-term - dermal - Systemic effects | 38 mg/kg   |
|                  | Long-term - oral - Systemic effects    | 3.2 mg/kg             |                                       |            |

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## 8.2. Exposure controls

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| 8.2.2. Individual protection measures | Wear protective clothing.                            |
| Eye / face protection                 | In case of splashing, wear: Approved safety goggles. |
| Skin protection - Handprotection      | Chemical resistant gloves (PVC).                     |

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                       |                |
|-----------------------|----------------|
| Appearance            | Liquid         |
| Colour                | Various        |
| Odour                 | Characteristic |
| pH                    | < 12.5         |
| Initial boiling point | 100            |
| Relative density      | 1.045 NOMINAL  |

## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

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

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

|                           |                                                                                 |
|---------------------------|---------------------------------------------------------------------------------|
| Acute toxicity            | No data is available on this product.                                           |
| Skin corrosion/irritation | May cause degreasing of the skin. May cause severe irritation to eyes and skin. |

## 11.1.4. Toxicological Information

|                                              |                           |
|----------------------------------------------|---------------------------|
| POTASSIUM SALT OF ARYL ETHER PHOSPHATE ESTER | Oral Rat LD50: >2000mg/Kg |
|----------------------------------------------|---------------------------|

## SECTION 12: Ecological information

## 12.1. Toxicity

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## 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

## Further information

|  |                                                          |
|--|----------------------------------------------------------|
|  | The product is not classified as dangerous for carriage. |
|--|----------------------------------------------------------|

## 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

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## Other information

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision</b>                               | This document differs from the previous version in the following areas:<br>2 - Precautionary Statement: Response.<br>9 - 9.1. Information on basic physical and chemical properties (Colour).                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Text of risk phrases in Section 3</b>      | R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.<br>R22 - Harmful if swallowed.<br>R34 - Causes burns.<br>R35 - Causes severe burns.<br>R36/38 - Irritating to eyes and skin.<br>R36 - Irritating to eyes.<br>R40 - Limited evidence of a carcinogenic effect.<br>R41 - Risk of serious damage to eyes.                                                                                                                                                                                                                                                               |
| <b>Text of Hazard Statements in Section 3</b> | 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>Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled<br>Skin Irrit. 2: H315 - Causes skin irritation.<br>Met. Corr. 1: H290 - May be corrosive to metals.<br>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.<br>Eye Dam. 1: H318 - Causes serious eye damage.<br>STOT SE 3: H335 - May cause respiratory irritation.<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. |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|