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# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## EP 13144 TFR CONCENTRATE

Revision 3

Revision date 2015-06-19

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

#### 1.1. Product identifier

|              |  |
|--------------|--|
| Product name | EP 13144 TFR CONCENTRATE   |
| 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; R38-41<br>Symbols: Xi: Irritant.                |
| Main hazards                         | Irritating to skin. Risk of serious damage to eyes. |
| 2.1.2. Classification - EC 1272/2008 | Skin Corr. 1B: H314;                                |

#### 2.2. Label elements

|                                     |  |
|-------------------------------------|--|
| Hazard pictograms                   |  |
| Signal Word                         | Danger   |
| Hazard Statement                    | Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.   |
| Precautionary Statement: Prevention | P260 - Do not breathe dust/fume/gas/mist/vapours/spray.<br>P264 - Wash thoroughly after handling.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection. |

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## 2.2. Label elements

|  |   |
|--|---|
| <b>Precautionary Statement:<br/>Response</b> | P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ or /if you feel unwell.<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.<br>P363 - Wash contaminated clothing before reuse. |
| <b>Precautionary Statement:<br/>Storage</b>  | P405 - Store locked up.   |
| <b>Precautionary Statement:<br/>Disposal</b> | 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 |           |
| Ethylene glycol monobutyl ether (2-Butoxyethanol)  | 603-014-00-0 | 111-76-2   | 203-905-0 |                                      | 0 - 0.5%     | Xn; R20/21/22 Xi; R36/38          |           |
| 2 BUTOXY ETHANOL (2-Butoxyethanol)                 |              | 111-76-2   | 203-905-0 |                                      | 1 - 10%      | Xn; R20/21/22 Xi; R36/38          |           |
| ALCOHOL ETHOXYLATE                                 |              | 68439-46-3 |           |                                      | 1 - 10%      | Xn; R22 Xi; R41                   |           |
| SODIUM METASILICATE PENTA HYDRATE                  |              | 6834-92-0  | 229-912-9 | 01-2119449811-37<br>01-2119449811-37 | 1 - 10%      | C; R34                            |           |
| COCAMIDOPROPYL BETAINE                             |              |            | 931-296-8 |                                      | 1 - 10%      | Xi; R41                           |           |
| TETRA POTASSIUM PYROPHOSPHATE                      |              | 7320-34-5  | 230-785-7 | 01-2119489369-18                     | 1 - 10%      | Xi; R36                           |           |
| Sodium hydroxide                                   | 011-002-00-6 | 1310-73-2  | 215-185-5 | 01-2119457892-27                     | 1 - 10%      | C; R35                            |           |
| Mono ethylene glycol (Ethane-1,2-diol particulate) | 603-027-00-1 | 107-21-1   | 203-473-3 |                                      | 0 - 0.5%     | Xn; R22                           |           |

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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  |              |            |           |                                      | 60 - 70%     |  |           |
| 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;   |           |
| D-Glucopyranose, Oligomeric, Decyl, Octyl, Glycoside                                 |              |            |           |                                      | 0.5 - 1%     | Eye Dam. 1: H318;  |           |
| 1-Propanaminium, 3 Amino-N(carboxymethyl)N,N-Dimethyl N Coco acyl dervis inner salts |              |            |           |                                      | 0.5 - 1%     | Skin Irrit. 2: H315;   |           |
| Ethylene glycol monobutyl ether (2-Butoxyethanol)                                    | 603-014-00-0 | 111-76-2   | 203-905-0 |                                      | 0 - 0.5%     | Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; |           |
| 2 BUTOXY ETHANOL (2-Butoxyethanol)   |              | 111-76-2   | 203-905-0 |                                      | 1 - 10%      | Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; |           |
| ALCOHOL ETHOXYLATE   |              | 68439-46-3 |           |                                      | 1 - 10%      | Acute Tox. 4: H302; Eye Dam. 1: H318;  |           |
| SODIUM METASILICATE PENTA 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;                          |           |
| COCAMIDOPROPYL BETAINE   |              |            | 931-296-8 |                                      | 1 - 10%      | Eye Dam. 1: H318; Aquatic Chronic 3: H412;   |           |
| TETRA POTASSIUM PYROPHOSPHATE  |              | 7320-34-5  | 230-785-7 | 01-2119489369-18                     | 1 - 10%      | Eye Irrit. 2: H319;  |           |
| Sodium hydroxide   | 011-002-00-6 | 1310-73-2  | 215-185-5 | 01-2119457892-27                     | 1 - 10%      | Skin Corr. 1A: H314;   |           |
| Mono ethylene glycol (Ethane-1,2-diol particulate)                                   | 603-027-00-1 | 107-21-1   | 203-473-3 |                                      | 0 - 0.5%     | Acute Tox. 4: H302;  |           |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|              |  |
|--------------|--|
| Inhalation   | No Significant Hazard. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention. |
| Eye contact  | Irritating 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 | Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.                      |
| Ingestion    | Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.   |

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

|  |                       |
|--|-----------------------|
|  | Carbon dioxide (CO2). |
|--|-----------------------|

## 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

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

|  |   |
|--|---|
|  | Wear suitable protective equipment. Adopt best Manual Handling considerations when handling, carrying and dispensing. |
|--|---|

## 6.2. Environmental precautions

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

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## 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, 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

|   |  |  |
|---|--|--|
| Ethylene glycol monobutyl ether<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: |
| Mono ethylene glycol<br>(Ethane-1,2-diol particulate) | 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: |
| Mono ethylene glycol<br>(Ethane-1,2-diol vapour)      | WEL 8-hr limit ppm: 20                           | WEL 8-hr limit mg/m3: 52                           |
|   | WEL 15 min limit ppm: 40                         | WEL 15 min limit mg/m3: 104                        |
|   | 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.

No data available.

## 8.2. Exposure controls

|   |                                    |
|---|------------------------------------|
| 8.2.1. Appropriate engineering controls | Not normally required.             |
| 8.2.2. Individual protection measures   | Wear suitable protective clothing. |
| Eye / face protection                   | Approved safety goggles.           |
| Skin protection - Handprotection        | Wear suitable gloves.              |
| Respiratory protection                  | Not normally required.             |

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**SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

|                  |                  |
|------------------|------------------|
| Appearance       | Liquid           |
| Colour           | Clear            |
| Odour            | Characteristic   |
| pH               | 12 - 14          |
| Relative density | 1.08 - 1.11      |
| Solubility       | Soluble in water |

**SECTION 10: Stability and reactivity**

## 10.2. Chemical stability

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

**SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

|                           |                              |
|---------------------------|------------------------------|
| Skin corrosion/irritation | Irritating to eyes and skin. |
|---------------------------|------------------------------|

**SECTION 12: Ecological information**

## 12.1. Toxicity

|                        |                                |                              |
|------------------------|--------------------------------|------------------------------|
| COCAMIDOPROPYL BETAINE | Daphnia EC50/48h: 21.5000 mg/l | Algae IC50/72h: 30.0000 mg/l |
|------------------------|--------------------------------|------------------------------|

## 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. More than 90% biodegradable. |
|--|--|

## 12.3. Bioaccumulative potential

|  |                         |
|--|-------------------------|
|  | Does not bioaccumulate. |
|--|-------------------------|

**SECTION 13: Disposal considerations**

## General information

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

**SECTION 14: Transport information**

## 14.1. UN number

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

## 14.2. UN proper shipping name

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

## 14.3. Transport hazard class(es)

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

## 14.4. Packing group

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

## 14.5. Environmental hazards

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

## 14.6. Special precautions for user

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

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

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

**Further information**

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

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

**SECTION 16: Other information****Other information**

|   |  |
|---|--|
| <b>Revision</b>                               | This document differs from the previous version in the following areas:<br>1 - REACH.<br>2 - 2.1. Classification of the substance or mixture.<br>2 - 2.1.2. Classification - EC 1272/2008.<br>2 - Precautionary Statement: Prevention.<br>2 - Precautionary Statement: Response.<br>2 - Precautionary Statement: Storage.<br>2 - Precautionary Statement: Disposal.<br>8 - DNEL: Derived no-effect level.<br>15 - Risk phrases.<br>15 - Safety phrases.  |
| <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>Eye Dam. 1: H318 - Causes serious eye damage.<br>Skin Irrit. 2: H315 - Causes skin irritation.<br>Acute Tox. 4: H312 - Harmful in contact with skin.<br>Acute Tox. 4: H332 - Harmful if inhaled.<br>Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled<br>Met. Corr. 1: H290 - May be corrosive to metals.<br>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.<br>STOT SE 3: H335 - May cause respiratory irritation.<br>Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.<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. |
|--|--|