



...advanced chemical
solutions for industry...

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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EP 13021 AKS 221

Revision 0

Revision date 2015-06-24

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

1.1. Product identifier

| | |
|--------------|--|
| Product name | EP 13021 AKS 221 |
| 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 Westminster Industrial Estate Measham Derbyshire 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 24hrs |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|--------------------------------------|--|
| 2.1.1. Classification - 1999/45/EC | Xn; R65 Symbols: Xn: Harmful. |
| Main hazards | Harmful: may cause lung damage if swallowed. |
| 2.1.2. Classification - EC 1272/2008 | Skin Irrit. 2: H315; Eye Dam. 1: H318; |

2.2. Label elements

| | |
|-------------------------------------|---|
| Hazard pictograms | |
| Signal Word | Danger |
| Hazard Statement | Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage. |
| Precautionary Statement: Prevention | P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. |

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2.2. Label elements

| | |
|--|---|
| Precautionary Statement: Response | P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. |
| Precautionary Statement: Storage | P405 - Store locked up. |
| Precautionary Statement: Disposal | 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. |
|------------------------------------|--------------|-----------|-----------|---------------------------|--------------|--|-----------|
| HYDROXYETHYL CELLULOSE | | 9004-62-0 | | | 0.5 - 1% | | |
| WATER | | | | | 80 - 90% | | |
| GAMMA BUTYROLACTONE | | 96-48-0 | 202-509-5 | | 1 - 10% | Xn; R65 Xi; R36 | |
| SODIUM ACETATE | | 127-09-3 | | | 0 - 0.5% | | |
| 2 BUTOXY ETHANOL (2-Butoxyethanol) | | 111-76-2 | 203-905-0 | | 1 - 10% | Xn; R20/21/22 Xi; R36/38 | |
| Isopropanol (Propan-2-ol) | 603-117-00-0 | 67-63-0 | 200-661-7 | | 0 - 0.5% | F; R11 Xi; R36 R67 | |
| CELLULOSE | | 9004-34-6 | | | 0 - 0.5% | | |
| Ethanolamine (2-Aminoethanol) | 603-030-00-8 | 141-43-5 | 205-483-3 | 01-2119486455-28 | 0 - 0.5% | Xn; R20/21/22 C; R34 | |
| Glyoxal...% | 605-016-00-7 | 107-22-2 | 203-474-9 | | 0 - 0.5% | Muta. Cat. 3; R68 Xn; R20 Xi; R36/38 R43 | |

EC 1272/2008

| Chemical Name | Index No. | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification | M-factor. |
|------------------------------------|--------------|-----------|-----------|---------------------------|--------------|---|-----------|
| HYDROXYETHYL CELLULOSE | | 9004-62-0 | | | 0.5 - 1% | | |
| WATER | | | | | 80 - 90% | | |
| GAMMA BUTYROLACTONE | | 96-48-0 | 202-509-5 | | 1 - 10% | Eye Dam. 1: H318; STOT SE 3: H336; | |
| SODIUM ACETATE | | 127-09-3 | | | 0 - 0.5% | | |
| 2 BUTOXY ETHANOL (2-Butoxyethanol) | | 111-76-2 | 203-905-0 | | 1 - 10% | Acute Tox. 4: H302+H312+H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; | |
| Isopropanol (Propan-2-ol) | 603-117-00-0 | 67-63-0 | 200-661-7 | | 0 - 0.5% | Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; | |
| CELLULOSE | | 9004-34-6 | | | 0 - 0.5% | | |
| Ethanolamine (2-Aminoethanol) | 603-030-00-8 | 141-43-5 | 205-483-3 | 01-2119486455-28 | 0 - 0.5% | Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; | |
| Glyoxal...% | 605-016-00-7 | 107-22-2 | 203-474-9 | | 0 - 0.5% | Muta. 2: H341; Acute Tox. 4: H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; | |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------------|---|
| Inhalation | 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. |

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4.1. Description of first aid measures

| | |
|--------------|---|
| Skin contact | Seek medical attention if irritation or symptoms persist. |
| | 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

| | |
|--|--|
| | Ensure adequate ventilation of the working area. 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. |
|--|---|

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. Ensure adequate ventilation of the working area. 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

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8.1.1. Exposure Limit Values

| | | |
|--|---|---|
| 2 BUTOXY ETHANOL (2-Butoxyethanol) | WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust: | WEL 8-hr limit mg/m3: 123 WEL 15 min limit mg/m3: 101.2 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust: |
| CELLULOSE | WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total 10 inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust: | WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total 20 inhalable dust: WEL 15 min limit mg/m3 total - respirable dust: |
| CELLULOSE (Cellulose (pure) respirable) | WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust: | WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust: |
| Ethanolamine (2-Aminoethanol) | WEL 8-hr limit ppm: 1 WEL 15 min limit ppm: 3 WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust: | WEL 8-hr limit mg/m3: 2.5 WEL 15 min limit mg/m3: 7.6 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust: |
| Isopropanol (Propan-2-ol) | WEL 8-hr limit ppm: 400 WEL 15 min limit ppm: 500 WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust: | WEL 8-hr limit mg/m3: 999 WEL 15 min limit mg/m3: 1250 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust: |

DNEL: Derived no-effect level.

No data is available on this product.

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 | Not normally required. Wear suitable respiratory equipment when necessary. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------|------------------|
| Appearance | Viscous liquid. |
| Colour | Clear |
| Odour | Characteristic |
| pH | 8 - 11 |
| Solubility | Soluble in water |

SECTION 10: Stability and reactivity

10.2. Chemical stability

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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. Risk of serious damage to eyes.

SECTION 12: Ecological information

12.2. Persistence and degradability

DETERGENTS IN THIS FORMULATION ARE >90% BIODEGRADABLE. More than 90% biodegradable.

12.3. Bioaccumulative potential

No data is available on this product.

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

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.2. Chemical safety assessment

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

SECTION 16: Other information

Other information

Text of risk phrases in Section 3

R11 - Highly flammable.
 R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
 R20 - Harmful by inhalation.
 R34 - Causes burns.
 R36/38 - Irritating to eyes and skin.
 R36 - Irritating to eyes.

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Other information

| | |
|---|---|
| Text of Hazard Statements in Section 3 | <p>R43 - May cause sensitisation by skin contact. R65 - Harmful: may cause lung damage if swallowed. R67 - Vapours may cause drowsiness and dizziness. R68 - Possible risk of irreversible effects.</p> |
| | <p>Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H336 - May cause drowsiness or dizziness. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Acute Tox. 4: H332 - Harmful if inhaled. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Muta. 2: H341 - Suspected of causing genetic defects .</p> |

Further information

| | |
|--|---|
| | <p>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.</p> |
|--|---|