

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : FIXWOOL ADHESIVE 1400  
UFI : GX5A-G0F8-T00C-F7X9  
Product code : 1043

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : For industrial use within high temperature applications.  
Adhesive for use with High Temperature Insulation Wools.

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet****Supplier**

Alkegen (formerly Unifrax)  
Mill Lane, Rainford  
UK- WA11 8LP St Helens, Merseyside  
United Kingdom  
T + 44 (0) 1744 88 7600 - F + 44 (0) 1744 88 9916

**Distributor**

Alkegen (formerly Unifrax)  
Kleinreinsdorf 62  
DE- 07989 Teichwolframsdorf  
Germany  
T + 49 (0) 366 24 40020 - F + 49 (0) 366 24 40099

**Distributor**

Alkegen (formerly Unifrax)  
Shaftsbury Street  
DE23 8XA Derby  
United Kingdom  
T +44 (0) 1332 331808

**Distributor**

Alkegen (formerly Unifrax)  
Via Volonterio 19  
21047 Saronno (VA)  
Italy  
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**Email competent person**

reachsds@alkegen.com

**Distributor**

Alkegen (formerly Unifrax)  
17 Rue Antoine Durafour  
42420 Lorette  
France  
T +33 (0) 477 737 032 - F +33 (0) 477 733 991

**Distributor**

Alkegen (formerly Unifrax)  
Ruská 311, Pozorka  
CZ- 417 03 Dubí 3  
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T + 42 (0) 417 800 356 - F + 42 (0) 417 539 838

**Distributor**

Alkegen (formerly Unifrax)  
Cristobal Bordiu 20  
ES- 28003 Madrid  
Spain  
T + 34 91 395 2279 - F + 34 91 395 2124

**1.4. Emergency telephone number**

Emergency number : Occupational Hygiene and CARE: Tel: + 44 (0) 1744 887603; Email: reachsds@alkegen.com; (8.15-17.10 h); Language : English

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin sensitisation, Category 1 H317

Full text of H- and EUH-statements: see section 16

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary statements (CLP)

: P261 - Avoid breathing mist, vapours, spray.

P280 - Wear protective gloves, eye protection, face protection.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component                                |   |
|--|---|
| aluminium oxide (1344-28-1)              | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| ethanediol (107-21-1)                    | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Cellulose (9004-34-6)                    | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-methyl-2H-isothiazol-3-one (2682-20-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments

: Mixture of the substances listed below with non-hazardous additives

| Name   | Product identifier                      | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|------------------|---|
| aluminium oxide<br>substance with national workplace exposure limit(s)<br>(GB) | CAS-No.: 1344-28-1<br>EC-No.: 215-691-6 | $\geq 50 - < 70$ | Not classified  |

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |  |                  |   |
|---|--|------------------|---|
| ethanediol<br>substance with national workplace exposure limit(s)<br>(GB); substance with a Community workplace<br>exposure limit | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-<br>28       | $\geq 5 - < 10$  | Acute Tox. 4 (Oral), H302 (ATE=500<br>mg/kg bodyweight)<br>STOT RE 2, H373  |
| Cellulose<br>substance with national workplace exposure limit(s)<br>(GB)  | CAS-No.: 9004-34-6<br>EC-No.: 232-674-9  | $\geq 1 - < 2.5$ | Not classified  |
| 1,2-benzisothiazol-3(2H)-one  | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6<br>REACH-no: 01-2120761540-<br>60-xxxx | $< 0.1$          | Acute Tox. 4 (Oral), H302 (ATE=670<br>mg/kg bodyweight)<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411  |
| 2-methyl-2H-isothiazol-3-one  | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9<br>REACH-no: 01-2120764690-<br>50-xxxx | $< 0.1$          | Acute Tox. 2 (Inhalation), H330 (ATE=0.1<br>mg/l/4h)<br>Acute Tox. 3 (Dermal), H311 (ATE=242<br>mg/kg bodyweight)<br>Acute Tox. 3 (Oral), H301 (ATE=120<br>mg/kg bodyweight)<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 |

| Specific concentration limits: |  |   |
|--------------------------------|--|---|
| Name                           | Product identifier   | Specific concentration limits                     |
| 1,2-benzisothiazol-3(2H)-one   | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6<br>REACH-no: 01-2120761540-<br>60-xxxx | ( 0.05 $\leq$ C < 100) Skin Sens. 1, H317         |
| 2-methyl-2H-isothiazol-3-one   | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9<br>REACH-no: 01-2120764690-<br>50-xxxx | ( 0.0015 $\leq$ C $\leq$ 100) Skin Sens. 1A, H317 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Allow affected person to breathe fresh air.   |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. Get medical advice if skin irritation persists. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.  |
| First-aid measures after ingestion    | : Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Obtain emergency medical attention.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
|-------------------------------------|--|

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : The product is not flammable. Use extinguishing media appropriate for surrounding fire.<br>Foam. Dry powder. Carbon dioxide. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

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

- |  |   |
|--|---|
| Hazardous decomposition products in case of fire | : Carbon monoxide. Carbon dioxide. Aldehydes. |
|--|---|

### 5.3. Advice for firefighters

- |                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Prevent fire fighting water from entering the environment.                                    |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- |                      |   |
|----------------------|---|
| Protective equipment | : Concerning personal protective equipment to use, see section 8. |
| Emergency procedures | : Prohibit unauthorized persons.                                  |

#### 6.1.2. For emergency responders

- |                      |  |
|----------------------|--|
| Protective equipment | : Ensure adequate ventilation. Concerning personal protective equipment to use, see section 8. |
| Emergency procedures | : Manipulations are to be done only by qualified and authorised persons.                       |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- |                         |  |
|-------------------------|--|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.<br>High efficiency particulate air filter (HEPA filter). |
|-------------------------|--|

### 6.4. Reference to other sections

See section 7. See Section 8. See Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin and eyes. Avoid inhalation of vapours. |
|-------------------------------|--|

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

- |  |   |
|--|---|
| Storage conditions                                       | : Product must only be kept in the original packaging. Keep container closed when not in use.<br>Protect against frost. |
| Information about storage in one common storage facility | : Keep away from food, drink and animal feeding stuffs.   |

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

|   |   |
|---|---|
| <b>ethanediol (107-21-1)</b>                              |   |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |   |
| Local name  | Ethylene glycol   |
| IOEL TWA  | 52 mg/m <sup>3</sup>  |
| IOEL TWA [ppm]  | 20 ppm  |
| IOEL STEL   | 104 mg/m <sup>3</sup>   |
| IOEL STEL [ppm]   | 40 ppm  |
| Remark  | Skin  |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC   |
| <b>United Kingdom - Occupational Exposure Limits</b>      |   |
| Local name  | Ethane-1,2-diol   |
| WEL TWA (OEL TWA) [1]                                     | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour   |
| WEL TWA (OEL TWA) [2]                                     | 20 ppm vapour   |
| WEL STEL (OEL STEL)                                       | 104 mg/m <sup>3</sup> vapour  |
| WEL STEL (OEL STEL) [ppm]                                 | 40 ppm vapour   |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference                                      | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>Cellulose (9004-34-6)</b>                              |   |
| <b>United Kingdom - Occupational Exposure Limits</b>      |   |
| Local name  | Cellulose   |
| WEL TWA (OEL TWA) [1]                                     | 10 mg/m <sup>3</sup> inhalable dust<br>4 mg/m <sup>3</sup> respirable   |
| WEL STEL (OEL STEL)                                       | 20 mg/m <sup>3</sup> inhalable dust   |
| Regulatory reference                                      | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>aluminium oxide (1344-28-1)</b>                        |   |
| <b>United Kingdom - Occupational Exposure Limits</b>      |   |
| Local name  | Aluminium oxides  |
| WEL TWA (OEL TWA) [1]                                     | 10 mg/m <sup>3</sup> inhalable dust<br>4 mg/m <sup>3</sup> respirable dust  |
| Regulatory reference                                      | EH40/2005 (Fourth edition, 2020). HSE   |

#### 8.1.2. Recommended monitoring procedures

No additional information available

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

|   |                            |
|---|----------------------------|
| <b>ethanediol (107-21-1)</b>                    |                            |
| <b>DNEL/DMEL (Workers)</b>                      |                            |
| Long-term - systemic effects, dermal            | 106 mg/kg bodyweight/day   |
| Long-term - local effects, inhalation           | 35 mg/m <sup>3</sup>       |
| <b>DNEL/DMEL (General population)</b>           |                            |
| Long-term - systemic effects, dermal            | 53 mg/kg bodyweight/day    |
| Long-term - local effects, inhalation           | 7 mg/m <sup>3</sup>        |
| <b>PNEC (Water)</b>                             |                            |
| PNEC aqua (freshwater)                          | 10 mg/l                    |
| PNEC aqua (marine water)                        | 1 mg/l                     |
| PNEC aqua (intermittent, freshwater)            | 10 mg/l                    |
| PNEC aqua (intermittent, marine water)          | 10 mg/l                    |
| <b>PNEC (Sediment)</b>                          |                            |
| PNEC sediment (freshwater)                      | 37 mg/kg dwt               |
| PNEC sediment (marine water)                    | 3.7 mg/kg dwt              |
| <b>PNEC (Soil)</b>                              |                            |
| PNEC soil                                       | 1.53 mg/kg dwt             |
| <b>PNEC (STP)</b>                               |                            |
| PNEC sewage treatment plant                     | 199.5 mg/l                 |
| <b>1,2-benzisothiazol-3(2H)-one (2634-33-5)</b> |                            |
| <b>DNEL/DMEL (Workers)</b>                      |                            |
| Long-term - systemic effects, dermal            | 0.966 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation        | 6.81 mg/m <sup>3</sup>     |
| <b>DNEL/DMEL (General population)</b>           |                            |
| Long-term - systemic effects, inhalation        | 1.2 mg/m <sup>3</sup>      |
| Long-term - systemic effects, dermal            | 0.345 mg/kg bodyweight/day |
| <b>PNEC (Water)</b>                             |                            |
| PNEC aqua (freshwater)                          | 4.03 µg/L                  |
| PNEC aqua (marine water)                        | 0.403 µg/L                 |
| PNEC aqua (intermittent, freshwater)            | 1.1 µg/L                   |
| PNEC aqua (intermittent, marine water)          | 0.11 µg/L                  |
| <b>PNEC (Sediment)</b>                          |                            |
| PNEC sediment (freshwater)                      | 49.9 µg/kg dw              |
| PNEC sediment (marine water)                    | 4.99 µg/kg dw              |
| <b>PNEC (Soil)</b>                              |                            |
| PNEC soil                                       | 3 mg/kg dwt                |

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |                            |
|---|----------------------------|
| <b>PNEC (STP)</b>                               |                            |
| PNEC sewage treatment plant                     | 1.03 mg/l                  |
| <b>2-methyl-2H-isothiazol-3-one (2682-20-4)</b> |                            |
| <b>DNEL/DMEL (Workers)</b>                      |                            |
| Acute - local effects, inhalation               | 0.043 mg/m <sup>3</sup>    |
| Long-term - local effects, inhalation           | 0.021 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>           |                            |
| Acute - systemic effects, oral                  | 0.053 mg/kg bodyweight/day |
| Acute - local effects, inhalation               | 0.043 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral              | 0.027 mg/kg bodyweight/day |
| Long-term - local effects, inhalation           | 0.021 mg/m <sup>3</sup>    |
| <b>PNEC (Water)</b>                             |                            |
| PNEC aqua (freshwater)                          | 3.39 µg/L                  |
| PNEC aqua (marine water)                        | 3.39 µg/L                  |
| PNEC aqua (intermittent, freshwater)            | 3.39 µg/L                  |
| PNEC aqua (intermittent, marine water)          | 3.39 µg/L                  |
| <b>PNEC (Soil)</b>                              |                            |
| PNEC soil                                       | 0.047 mg/kg dwt            |
| <b>PNEC (STP)</b>                               |                            |
| PNEC sewage treatment plant                     | 0.23 mg/l                  |

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses with side shields. EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Impervious clothing. Do not take working clothes home

##### Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Liquid product : Inhalation unlikely. If dust are formed : Wear appropriate mask, Particle filter, P2. EN 149.

#### 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

### Other information:

Do not eat, drink or smoke during use. Do not take working clothes home. Separate working clothes from town clothes. Launder separately.

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 9: Physical and chemical properties

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

|   |                             |
|---|-----------------------------|
| Physical state                                  | : Liquid                    |
| Colour  | : white.                    |
| Appearance                                      | : Paste.                    |
| Odour   | : odourless.                |
| Odour threshold                                 | : Not available             |
| Melting point                                   | : Not available             |
| Freezing point                                  | : Not available             |
| Boiling point                                   | : Not available             |
| Flammability                                    | : Not applicable            |
| Explosive properties                            | : Product is not explosive. |
| Oxidising properties                            | : Non oxidizing.            |
| Explosive limits                                | : Not applicable            |
| Lower explosion limit                           | : Not available             |
| Upper explosion limit                           | : Not available             |
| Flash point                                     | : Not applicable            |
| Auto-ignition temperature                       | : Not self-igniting         |
| Decomposition temperature                       | : Not available             |
| pH  | : 9 – 10                    |
| Viscosity, kinematic                            | : Not available             |
| Solubility                                      | : Water: Slightly soluble   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available             |
| Partition coefficient n-octanol/water (Log Pow) | : Not applicable            |
| Vapour pressure                                 | : Not available             |
| Vapour pressure at 50 °C                        | : Not available             |
| Density   | : Not available             |
| Relative density                                | : Not available             |
| Relative vapour density at 20 °C                | : Not available             |
| Particle characteristics                        | : Not applicable            |

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

Bulk density : 1600 kg/m<sup>3</sup>

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of use.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available.

#### 10.5. Incompatible materials

No additional information available



# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |   |
|-----------------------------|---|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

| FIXWOOL ADHESIVE 1400                    |   |
|--|---|
| ATE CLP (oral)                           | > 9000 mg/kg bodyweight   |
| ethanediol                               |   |
| LD50 oral                                | ≈ 1600 mg/kg bodyweight (human (estimated value))   |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) |   |
| LD50 oral rat                            | 670 – 784 mg/kg bodyweight (OECD 401 method)  |
| LD50 dermal rat                          | > 2000 mg/kg bodyweight (OECD 402 method)   |
| Skin corrosion/irritation                | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 9 – 10 |
| Serious eye damage/irritation            | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 9 – 10 |
| Respiratory or skin sensitisation        | : May cause an allergic skin reaction.  |
| Germ cell mutagenicity                   | : Not classified (Based on available data, the classification criteria are not met)               |
| Carcinogenicity                          | : Not classified (Based on available data, the classification criteria are not met)               |
| Reproductive toxicity                    | : Not classified (Based on available data, the classification criteria are not met)               |
| STOT-single exposure                     | : Not classified (Based on available data, the classification criteria are not met)               |
| STOT-repeated exposure                   | : Not classified (Based on available data, the classification criteria are not met)               |
| ethanediol                               |   |
| STOT-repeated exposure                   | May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).       |
| Aspiration hazard                        | : Not classified (Based on available data, the classification criteria are not met)               |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met) |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) |  |
|--|--|
| LC50 - Fish [1]                          | 2.18 mg/l (96 h; Onchorhynchus mykiss, OECD 203)             |
| EC50 - Crustacea [1]                     | 2.94 mg/l (48 h; Daphnia magna; OECD 202)                    |
| ErC50 algae                              | 0.15 mg/l (72 h; Pseudokirchneriella subcapitata; OECD 201)  |
| NOEC chronic algae                       | 0.055 mg/l (72 h; Pseudokirchneriella subcapitata; OECD 201) |

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| <b>2-methyl-2H-isothiazol-3-one (2682-20-4)</b> |   |
|---|---|
| LC50 - Fish [1]                                 | 4.77 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method))            |
| EC50 - Crustacea [1]                            | 0.934 mg/l (48 h; Daphnia magna; (OECD 202 method))                 |
| EC50 72h algae                                  | 0.103 mg/l (72 h, Pseudokirchneriella Subcapita; (OECD 201 method)) |
| ErC50 algae                                     | 0.072 mg/l (OECD 201 method)  |
| NOEC chronic fish                               | 4.93 mg/l (98 d; Oncorhynchus mykiss; (OECD 210 method))            |
| NOEC chronic crustacea                          | 0.044 mg/l (21 d; Daphnia magna; (OECD 211 method))                 |
| NOEC chronic algae                              | 0.05 mg/l (5 d; Pseudokirchneriella subcapitata; (OECD 201 method)) |

### 12.2. Persistence and degradability

| <b>ethanediol</b>                               |  |
|---|--|
| Biodegradation                                  | 90 – 100 % (10 d; (OECD 301A method))                              |
| <b>Cellulose (9004-34-6)</b>                    |  |
| Persistence and degradability                   | Readily biodegradable.   |
| <b>aluminium oxide (1344-28-1)</b>              |  |
| Persistence and degradability                   | Not applicable.  |
| <b>1,2-benzisothiazol-3(2H)-one (2634-33-5)</b> |  |
| Persistence and degradability                   | Not readily biodegradable.   |
| Biodegradation                                  | 85 % (63 d; (OECD 301C method))                                    |
| <b>2-methyl-2H-isothiazol-3-one (2682-20-4)</b> |  |
| Persistence and degradability                   | Not readily biodegradable. (OECD 301B method). (OECD 301D method). |

### 12.3. Bioaccumulative potential

| <b>FIXWOOL ADHESIVE 1400</b>                    |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | Not applicable  |
| <b>ethanediol</b>                               |   |
| Partition coefficient n-octanol/water (Log Pow) | -1.36 (Quantitative structure-activity relationship (QSAR)) |
| <b>Cellulose (9004-34-6)</b>                    |   |
| Bioaccumulative potential                       | not bioaccumulable.   |
| <b>aluminium oxide (1344-28-1)</b>              |   |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable  |
| Bioaccumulative potential                       | Not applicable.   |
| <b>1,2-benzisothiazol-3(2H)-one (2634-33-5)</b> |   |
| BCF - Fish [1]                                  | 6.95 (OECD 305 method)                                      |
| Partition coefficient n-octanol/water (Log Kow) | 0.7 (20 °C; pH 7; Test method EU A.8)                       |
| <b>2-methyl-2H-isothiazol-3-one (2682-20-4)</b> |   |
| Partition coefficient n-octanol/water (Log Pow) | -0.486 (20 °C)  |
| Bioaccumulative potential                       | Bioaccumulation unlikely.                                   |

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.4. Mobility in soil

| 2-methyl-2H-isothiazol-3-one (2682-20-4) |                                  |
|--|----------------------------------|
| Surface tension                          | 68.8 mN/m (19 °C, EEC Method A5) |
| Ecology - soil                           | Low mobility (soil).             |

### 12.5. Results of PBT and vPvB assessment

| FIXWOOL ADHESIVE 1400  |
|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
European List of Waste (LoW) code : 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09  
HP Code : HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG  | IATA                              | ADN                               | RID                               |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| 14.1. UN number or ID number           |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.2. UN proper shipping name          |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.3. Transport hazard class(es)       |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.4. Packing group                    |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.5. Environmental hazards            |   |                                   |                                   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available |   |                                   |                                   |                                   |

### 14.6. Special precautions for user

#### Overland transport

Transport regulations (ADR) : Not applicable

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Transport by sea

Transport regulations (IMDG) : Not applicable

### Air transport

Transport regulations (IATA) : Not applicable

### Inland waterway transport

Transport regulations (ADN) : Not applicable

### Rail transport

Transport regulations (RID) : Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on                      |
|----------------|------------------------------------|
| 3(b)           | FIXWOOL ADHESIVE 1400 ; ethanediol |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|      |   |
|------|---|
| CLP  | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008   |
| CAS  | Chemical Abstract Service   |
| ADN  | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR  | Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| IATA | International Air Transport Association   |
| IMDG | International Maritime Code for Dangerous Goods   |

# FIXWOOL ADHESIVE 1400

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|     |  |
|-----|--|
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
|-----|--|

Data sources : European Chemicals Agency, <http://echa.europa.eu/>.  
Other information : Occupational Hygiene: [dawn.webster@alkegen.com](mailto:dawn.webster@alkegen.com).

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                                |
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal), Category 3                                |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                                  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1    |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1  |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H311                                | Toxic in contact with skin.  |
| H314                                | Causes severe skin burns and eye damage.                           |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.                               |
| H318                                | Causes serious eye damage.   |
| H330                                | Fatal if inhaled.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |
| H411                                | Toxic to aquatic life with long lasting effects.                   |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B             |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                              |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                     |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                    |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                    |
|---|------|--------------------|
| Skin Sens. 1  | H317 | Calculation method |

KFT SDS EU 06

The information presented on this SDS (1) provides details on material identity, manufacturer/supplier information, hazard characterization and prevention, emergency response and other specialized information, (2) is considered to be accurate to the best of our knowledge, information and good faith belief as of the date of publication, (3) is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release of the material named, (4) should be read and used in conjunction with the company's relevant literature, (5) relates only to the specific material designated and may not be valid for such material used in combination with any other material or process and (6) is provided without warranty, expressed or implied, in law or in fact, of merchantability or fitness for a particular purpose. This document does not constitute a product specification and should not be relied on as such. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product.