



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

### 1.1. Product identifier

|                 |  |
|-----------------|--|
| Product form    | : Mixture                              |
| Product name    | : Petroseal <sup>C6</sup> 6            |
| Product code    | : FNC 08 02                            |
| Type of product | : Firefighting foam concentrate (FFFP) |

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

#### 1.2.1. Relevant identified uses

|                                  |   |
|----------------------------------|---|
| Industrial/Professional use spec | : Industrial<br>For professional use only |
| Use of the substance/mixture     | : Firefighting foam concentrate           |

#### 1.2.2. Uses advised against

No additional information available

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

ANGUS FIRE Ltd  
Station Road  
Bentham LA2 7NA - United Kingdom  
T +44 1524 264000 - F +441524 264180  
[general.enquiries@angusuk.co.uk](mailto:general.enquiries@angusuk.co.uk) - [www.angusfire.co.uk](http://www.angusfire.co.uk)

### 1.4. Emergency telephone number

|                  |  |
|------------------|--|
| Emergency number | : T +44(0) 1524 264000 (Standard office hours: Monday to Friday 8:30am – 4:30pm GMT)<br>Contact person: EH&S Manager |
|------------------|--|

## 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 hazard classes and H-statements : see section 16

#### 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   |
| Hazardous ingredients          | : 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol   |
| Hazard statements (CLP)        | : H317 - May cause an allergic skin reaction.   |
| Precautionary statements (CLP) | : P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear eye protection, protective clothing, protective gloves.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P501 - Dispose in a safe manner in accordance with local/national regulations |

### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|---------|---|
| 2-(2-Butoxyethoxy)ethanol   | (CAS-No.) 112-34-5<br>(EC-No.) 203-961-6<br>(EC Index-No.) 603-096-00-8<br>(REACH-no) 01-2119475104-44  | 1 - 4   | Eye Irrit. 2, H319  |
| 2-methyl-2,4-pentanediol  | (CAS-No.) 107-41-5<br>(EC-No.) 203-489-0<br>(EC Index-No.) 603-053-00-3<br>(REACH-no) 01-2119539582-35  | 1 - 4   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| Ethane-1,2-diol   | (CAS-No.) 107-21-1<br>(EC-No.) 203-473-3<br>(EC Index-No.) 603-027-00-1<br>(REACH-no) 01-2119456816-28  | 1 - 4   | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373  |
| 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol             | (CAS-No.) 4719-04-4<br>(EC-No.) 225-208-0<br>(EC Index-No.) 613-114-00-6<br>(REACH-no) 01-2119529226-41 | 0.1 - 1 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 2 (Inhalation:dust,mist), H330<br>Skin Sens. 1, H317<br>STOT RE 1, H372                       |
| Zinc oxide  | (CAS-No.) 1314-13-2<br>(EC-No.) 215-222-5<br>(EC Index-No.) 030-013-00-7<br>(REACH-no) 01-2119463881-32 | < 1     | Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410   |
| 2-Aminoethanol<br>substance with a Community workplace exposure limit | (CAS-No.) 141-43-5<br>(EC-No.) 205-483-3<br>(EC Index-No.) 603-030-00-8<br>(REACH-no) 01-2119486455-28  | < 0.1   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1A, H314<br>STOT SE 3, H335 |

#### Specific concentration limits:

| Name  | Product identifier  | Specific concentration limits |
|---|---|-------------------------------|
| 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol | (CAS-No.) 4719-04-4<br>(EC-No.) 225-208-0<br>(EC Index-No.) 613-114-00-6<br>(REACH-no) 01-2119529226-41 | (C >= 0.1) Skin Sens. 1, H317 |
| 2-Aminoethanol  | (CAS-No.) 141-43-5<br>(EC-No.) 205-483-3<br>(EC Index-No.) 603-030-00-8<br>(REACH-no) 01-2119486455-28  | (C >= 5) STOT SE 3, H335      |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  |
| First-aid measures after inhalation   | : Assure fresh air breathing. Allow the victim to rest.  |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.  |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.   |

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

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

#### 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   | : No specific measures are necessary. This product is a fire extinguishing medium. |
| Unsuitable extinguishing media | : Not applicable.  |

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

Fire hazard : No fire hazard.

### 5.3. Advice for firefighters

Firefighting instructions : Not applicable.

Protection during firefighting : Not applicable.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 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. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

8. Exposure controls/personal protection. 13. Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wear recommended personal protective equipment. Read and follow manufacturer's recommendations. Handle in accordance with good industrial hygiene and safety procedures.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions : Store in original container. Keep container tightly closed. Store at temperatures not exceeding 60°C (140°F) (intermittent). Protect from freezing. Keep/Store away from incompatible materials.

### 7.3. Specific end use(s)

Firefighting foam concentrate.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| 2-(2-Butoxyethoxy)ethanol (112-34-5) |   |   |
|--------------------------------------|---|---|
| EU                                   | Local name                              | 2-(2-Butoxyethoxy)ethanol   |
| EU                                   | IOELV TWA (mg/m <sup>3</sup> )          | 67.5 mg/m <sup>3</sup>  |
| EU                                   | IOELV TWA (ppm)                         | 10 ppm  |
| EU                                   | IOELV STEL (mg/m <sup>3</sup> )         | 101.2 mg/m <sup>3</sup>   |
| EU                                   | IOELV STEL (ppm)                        | 15 ppm  |
| Belgium                              | Limit value (mg/m <sup>3</sup> )        | 67.5 mg/m <sup>3</sup> (2-(2-Butoxyéthoxy)éthanol; Belgium; Time-weighted average exposure limit 8 h)   |
| Belgium                              | Limit value (ppm)                       | 10 ppm (2-(2-Butoxyéthoxy)éthanol; Belgium; Time-weighted average exposure limit 8 h)   |
| Belgium                              | Short time value (mg/m <sup>3</sup> )   | 101.2 mg/m <sup>3</sup> (2-(2-Butoxyéthoxy)éthanol; Belgium; Short time value)  |
| Belgium                              | Short time value (ppm)                  | 15 ppm (2-(2-Butoxyéthoxy)éthanol; Belgium; Short time value)   |
| Netherlands                          | Grenswaarde TGG 8H (mg/m <sup>3</sup> ) | 50 mg/m <sup>3</sup> (2-(2-butoxyethoxy)ethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands                          | Grenswaarde TGG 8H (ppm)                | 7.4 ppm (2-(2-butoxyethoxy)ethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)              |

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| <b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b> |  |  |
|---|--|--|
| Netherlands                                 | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> (2-(2-butoxyethoxy)ethanol; Netherlands; Short time value; Public occupational exposure limit value)                       |
| Netherlands                                 | Grenswaarde TGG 15MIN (ppm)                | 15 ppm (2-(2-butoxyethoxy)ethanol; Netherlands; Short time value; Public occupational exposure limit value)                                      |
| United Kingdom                              | WEL TWA (mg/m <sup>3</sup> )               | 67.5 mg/m <sup>3</sup> 2-(2-Butoxyethoxy)ethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom                              | WEL TWA (ppm)                              | 10 ppm 2-(2-Butoxyethoxy)ethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)                 |
| United Kingdom                              | WEL STEL (mg/m <sup>3</sup> )              | 101.2 mg/m <sup>3</sup> 2-(2-Butoxyethoxy)ethanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)                        |
| United Kingdom                              | WEL STEL (ppm)                             | 15 ppm 2-(2-Butoxyethoxy)ethanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)   |
| USA - ACGIH                                 | ACGIH TWA (ppm)                            | 10 ppm (Diethylene glycol monobutyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)     |
| <b>Ethane-1,2-diol (107-21-1)</b>           |  |  |
| EU  | IOELV TWA (mg/m <sup>3</sup> )             | 52 mg/m <sup>3</sup>   |
| EU  | IOELV TWA (ppm)                            | 20 ppm   |
| EU  | IOELV STEL (mg/m <sup>3</sup> )            | 104 mg/m <sup>3</sup>  |
| EU  | IOELV STEL (ppm)                           | 40 ppm   |
| Belgium                                     | Limit value (mg/m <sup>3</sup> )           | 52 mg/m <sup>3</sup>   |
| Belgium                                     | Limit value (ppm)                          | 20 ppm   |
| Belgium                                     | Short time value (mg/m <sup>3</sup> )      | 104 mg/m <sup>3</sup>  |
| Belgium                                     | Short time value (ppm)                     | 40 ppm   |
| France                                      | VME (mg/m <sup>3</sup> )                   | 52 mg/m <sup>3</sup>   |
| France                                      | VME (ppm)                                  | 20 ppm   |
| France                                      | VLE (mg/m <sup>3</sup> )                   | 104 mg/m <sup>3</sup>  |
| France                                      | VLE (ppm)                                  | 40 ppm   |
| Netherlands                                 | Grenswaarde TGG 8H (mg/m <sup>3</sup> )    | 52 mg/m <sup>3</sup> (damp)<br>10 mg/m <sup>3</sup> (druppels)   |
| Netherlands                                 | Grenswaarde TGG 8H (ppm)                   | 20 ppm (damp)<br>3.9 ppm (druppels)  |
| Netherlands                                 | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> ) | 104 mg/m <sup>3</sup> (damp)   |
| Netherlands                                 | Grenswaarde TGG 15MIN (ppm)                | 40 ppm (damp)  |
| United Kingdom                              | WEL TWA (mg/m <sup>3</sup> )               | 10 mg/m <sup>3</sup><br>52 mg/m <sup>3</sup>   |
| United Kingdom                              | WEL TWA (ppm)                              | 20 ppm   |
| United Kingdom                              | WEL STEL (mg/m <sup>3</sup> )              | 104 mg/m <sup>3</sup>  |
| United Kingdom                              | WEL STEL (ppm)                             | 40 ppm   |
| USA - ACGIH                                 | ACGIH TWA (ppm)                            | 25 ppm (Vapor fraction)  |
| USA - ACGIH                                 | ACGIH STEL (mg/m <sup>3</sup> )            | 10 mg/m <sup>3</sup> (Inhalable fraction, Aerosol only)  |
| USA - ACGIH                                 | ACGIH STEL (ppm)                           | 50 ppm (Vapor fraction)  |
| <b>2-methyl-2,4-pentanediol (107-41-5)</b>  |  |  |
| EU  | IOELV TWA (mg/m <sup>3</sup> )             | 123 mg/m <sup>3</sup>  |
| EU  | IOELV TWA (ppm)                            | 25 ppm   |
| EU  | IOELV STEL (mg/m <sup>3</sup> )            | 123 mg/m <sup>3</sup>  |
| EU  | IOELV STEL (ppm)                           | 25 ppm   |
| Belgium                                     | Limit value (mg/m <sup>3</sup> )           | 123 mg/m <sup>3</sup>  |
| Belgium                                     | Limit value (ppm)                          | 25 ppm   |
| France                                      | VLE (mg/m <sup>3</sup> )                   | 125 mg/m <sup>3</sup>  |
| France                                      | VLE (ppm)                                  | 25 ppm   |
| United Kingdom                              | WEL TWA (mg/m <sup>3</sup> )               | 123 mg/m <sup>3</sup>  |
| United Kingdom                              | WEL TWA (ppm)                              | 25 ppm   |
| United Kingdom                              | WEL STEL (mg/m <sup>3</sup> )              | 123 mg/m <sup>3</sup>  |
| United Kingdom                              | WEL STEL (ppm)                             | 25 ppm   |
| USA - ACGIH                                 | ACGIH TWA (ppm)                            | 25 ppm (Vapor fraction)  |

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| <b>2-methyl-2,4-pentanediol (107-41-5)</b> |  |   |
|--|--|---|
| USA - ACGIH                                | ACGIH STEL (mg/m <sup>3</sup> )            | 10 mg/m <sup>3</sup> (Inhalable fraction, Aerosol only)                 |
| USA - ACGIH                                | ACGIH STEL (ppm)                           | 50 ppm (Vapor fraction)   |
| <b>2-Aminoethanol (141-43-5)</b>           |  |   |
| EU   | Local name                                 | 2-Aminoethanol  |
| EU   | IOELV TWA (mg/m <sup>3</sup> )             | 2.5 mg/m <sup>3</sup>   |
| EU   | IOELV TWA (ppm)                            | 1 ppm   |
| EU   | IOELV STEL (mg/m <sup>3</sup> )            | 7.6 mg/m <sup>3</sup>   |
| EU   | IOELV STEL (ppm)                           | 3 ppm   |
| EU   | Notes                                      | skin  |
| Belgium                                    | Limit value (mg/m <sup>3</sup> )           | 2.5 mg/m <sup>3</sup>   |
| Belgium                                    | Limit value (ppm)                          | 1 ppm   |
| Belgium                                    | Short time value (mg/m <sup>3</sup> )      | 7.6 mg/m <sup>3</sup>   |
| Belgium                                    | Short time value (ppm)                     | 3 ppm   |
| France                                     | Local name                                 | Ethanolamine (2-Aminoéthanol)   |
| France                                     | VME (mg/m <sup>3</sup> )                   | 2.5 mg/m <sup>3</sup>   |
| France                                     | VME (ppm)                                  | 1 ppm   |
| France                                     | VLE (mg/m <sup>3</sup> )                   | 7.6 mg/m <sup>3</sup>   |
| France                                     | VLE (ppm)                                  | 3 ppm   |
| France                                     | Note (FR)                                  | Valeurs réglementaires contraignantes; risque de pénétration percutanée |
| Netherlands                                | Grenswaarde TGG 8H (mg/m <sup>3</sup> )    | 2.5 mg/m <sup>3</sup>   |
| Netherlands                                | Grenswaarde TGG 8H (ppm)                   | 0.98 ppm  |
| Netherlands                                | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> ) | 7.6 mg/m <sup>3</sup>   |
| Netherlands                                | Grenswaarde TGG 15MIN (ppm)                | 3 ppm   |
| United Kingdom                             | WEL TWA (mg/m <sup>3</sup> )               | 2.5 mg/m <sup>3</sup>   |
| United Kingdom                             | WEL TWA (ppm)                              | 1 ppm   |
| United Kingdom                             | WEL STEL (mg/m <sup>3</sup> )              | 7.6 mg/m <sup>3</sup>   |
| United Kingdom                             | WEL STEL (ppm)                             | 3 ppm   |
| USA - ACGIH                                | ACGIH TWA (ppm)                            | 3 ppm   |
| USA - ACGIH                                | ACGIH STEL (ppm)                           | 6 ppm   |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure adequate ventilation. Follow the exposure limits given on this material safety data sheet.

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Wear protective gloves (butyl rubber)

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (A2/P2).

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### Thermal hazard protection:

Wear thermal protective clothing, when necessary.

### Environmental exposure controls:

Contain spills. Prevent releases. Observe national regulations on emissions. Ensure all national/local regulations are observed.

### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

|  |                            |
|--|----------------------------|
| Physical state                             | : Liquid                   |
| Colour                                     | : Dark brown.              |
| Odour                                      | : Characteristic.          |
| Odour threshold                            | : No data available        |
| pH   | : 6.9 - 7.9                |
| Relative evaporation rate (butylacetate=1) | : No data available        |
| Melting point                              | : No data available        |
| Freezing point                             | : -7.5 °C                  |
| Boiling point                              | : No data available        |
| Flash point                                | : > 100 °C                 |
| Auto-ignition temperature                  | : No data available        |
| Decomposition temperature                  | : No data available        |
| Flammability (solid, gas)                  | : Non flammable.           |
| Vapour pressure                            | : No data available        |
| Relative vapour density at 20 °C           | : No data available        |
| Relative density                           | : No data available        |
| Density                                    | : 1.07 - 1.11              |
| Solubility                                 | : No data available        |
| Log Pow                                    | : No data available        |
| Viscosity, kinematic                       | : 3 - 7 mm <sup>2</sup> /s |
| Viscosity, dynamic                         | : No data available        |
| Explosive properties                       | : No data available        |
| Oxidising properties                       | : No data available        |
| Explosive limits                           | : No data available        |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable and non reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Incompatible materials. Extremely high or low temperatures.

### 10.5. Incompatible materials

Alkali metals. Oxidizing agent. Water reactive substances.

### 10.6. Hazardous decomposition products

Carbon oxides. Sulphur oxides. Hydrogen fluoride. Nitrogen oxides (NO<sub>x</sub>). Sodium oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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| <b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>                                  |   |
|--|---|
| LD50 oral rat  | 5660 mg/kg (Rat)  |
| LD50 dermal rabbit   | 2764 mg/kg (Rabbit; Experimental value; OECD 402 : acute dermal toxicity)                     |
| <b>Ethane-1,2-diol (107-21-1)</b>  |   |
| LD50 oral rat  | > 5000 mg/kg (Rat; Study on Literature)   |
| LD50 dermal  | > 3500 mg/kg bodyweight (Mouse, Male/female, Experimental value)                              |
| LC50 inhalation rat (mg/l)   | > 2.5 mg/l (6 h, Rat, Male/female, Experimental value)  |
| <b>2-methyl-2,4-pentanediol (107-41-5)</b>                                   |   |
| LD50 oral rat  | 3700 mg/kg (Rat; OECD 420; Experimental value; > 2000 mg/kg bodyweight; Rat)                  |
| LD50 dermal rat  | > 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: acute dermal toxicity)            |
| LD50 dermal rabbit   | > 8000 mg/kg (Rabbit)   |
| LC50 inhalation rat (mg/l)   | > 55 g/m <sup>3</sup> (Equivalent or similar to OECD 403, 8 h, Rat, Male, Experimental value) |
| <b>2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (4719-04-4)</b> |   |
| LD50 oral rat  | 763 mg/kg (Rat)   |
| LD50 dermal rat  | > 2000 mg/kg (Rat)  |
| <b>2-Aminoethanol (141-43-5)</b>   |   |
| LD50 oral rat  | 1720 mg/kg (Rat)  |
| LD50 dermal rabbit   | 1018 mg/kg (Rabbit)   |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not classified<br>pH: 6.9 - 7.9  |
| Additional information            | : Based on available data, the classification criteria are not met                   |
| Serious eye damage/irritation     | : Not classified<br>pH: 6.9 - 7.9  |
| Additional information            | : Based on available data, the classification criteria are not met                   |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity            | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met                   |
| Reproductive toxicity             | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met                   |
| STOT-single exposure              | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met                   |
| STOT-repeated exposure            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met                   |
| Aspiration hazard                 | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met                   |

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|---------------------------------|--------------------------|
| Viscosity, kinematic            | 3 - 7 mm <sup>2</sup> /s |

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>Zinc oxide (1314-13-2)</b>               |                                       |
|---|---------------------------------------|
| ErC50 (algae)                               | 0.042 mg/l                            |
| NOEC chronic algae                          | 0.017 mg/l                            |
| <b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b> |                                       |
| LC50 fish 1                                 | 1300 mg/l (96 h; Lepomis macrochirus) |
| LC50 fish 2                                 | 1805 mg/l (48 h; Leuciscus idus)      |
| LC50 other aquatic organisms 1              | 10 - 100 mg/l (96 h)                  |
| EC50 Daphnia 1                              | 2850 mg/l (24 h; Daphnia magna; GLP)  |
| EC50 Daphnia 2                              | > 100 mg/l (48 h; Daphnia magna)      |
| TLM fish 1                                  | 10 - 100,96 h; Pisces                 |
| TLM other aquatic organisms 1               | 10 - 100,96 h                         |
| Threshold limit other aquatic organisms 1   | 10 - 100,96 h                         |

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| <b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b> |  |
|---|--|
| Threshold limit algae 1                     | 53 mg/l (192 h; Microcystis aeruginosa)  |
| Threshold limit algae 2                     | >= 100 mg/l (96 h; Scenedesmus subspicatus)  |
| <b>Ethane-1,2-diol (107-21-1)</b>           |  |
| LC50 fish 1                                 | 53000 mg/l (96 h; Pimephales promelas; Static system)  |
| LC50 fish 2                                 | 40761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)  |
| EC50 Daphnia 1                              | > 10000 mg/l (24 h; Daphnia magna)   |
| EC50 96h algae (1)                          | 6.5 - 13 g/l (Selenastrum capricornutum)   |
| Threshold limit algae 1                     | > 10000 mg/l (168 h; Scenedesmus quadricauda)  |
| Threshold limit algae 2                     | 2000 mg/l (192 h; Microcystis aeruginosa)  |
| <b>2-methyl-2,4-pentanediol (107-41-5)</b>  |  |
| LC50 fish 1                                 | 12800 mg/l (96 h; Lepomis macrochirus)   |
| LC50 fish 2                                 | 9450 mg/l (96 h; Oncorhynchus mykiss)  |
| LC50 other aquatic organisms 1              | 10 - 100 mg/l (96 h)   |
| EC50 Daphnia 1                              | 5410 mg/l (48 h; Daphnia magna)  |
| EC50 Daphnia 2                              | 3300 mg/l (48 h; Daphnia pulex)  |
| ErC50 (algae)                               | > 429 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value) |
| Threshold limit other aquatic organisms 1   | 10 - 100,96 h  |
| Threshold limit algae 1                     | > 429 mg/l (72 h; Pseudokirchneriella subcapitata)   |
| <b>2-Aminoethanol (141-43-5)</b>            |  |
| LC50 fish 1                                 | 150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)   |
| LC50 fish 2                                 | 329.16 mg/l (96 h; Lepomis macrochirus)  |
| EC50 Daphnia 1                              | 140 mg/l (24 h; Daphnia magna)   |
| EC50 72h algae (1)                          | 35 mg/l (Algae)  |
| TLM fish 1                                  | 100 - 1000,96 h; Pisces  |
| TLM other aquatic organisms 1               | 100 - 1000,96 h  |
| Threshold limit algae 1                     | 0.97 mg/l (192 h; Scenedesmus quadricauda; Deceleration)   |
| Threshold limit algae 2                     | 35 mg/l (72 h; Algae)  |

### 12.2. Persistence and degradability

| <b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b> |                                     |
|---|-------------------------------------|
| Persistence and degradability               | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD)             | 0.25 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)                | 2.08 g O <sub>2</sub> /g substance  |
| ThOD  | 2.173 g O <sub>2</sub> /g substance |
| BOD (% of ThOD)                             | 0.11                                |
| <b>Ethane-1,2-diol (107-21-1)</b>           |                                     |
| Persistence and degradability               | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD)             | 0.47 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)                | 1.24 g O <sub>2</sub> /g substance  |
| ThOD  | 1.29 g O <sub>2</sub> /g substance  |
| BOD (% of ThOD)                             | 0.36                                |
| <b>2-methyl-2,4-pentanediol (107-41-5)</b>  |                                     |
| Persistence and degradability               | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD)             | 0.02 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)                | 2.2 g O <sub>2</sub> /g substance   |
| ThOD  | 2.3 g O <sub>2</sub> /g substance   |
| BOD (% of ThOD)                             | 0.01                                |
| <b>2-Aminoethanol (141-43-5)</b>            |                                     |
| Persistence and degradability               | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD)             | 0.8 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)                | 1.34 g O <sub>2</sub> /g substance  |



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| 2-Aminoethanol (141-43-5) |                                    |
|---------------------------|------------------------------------|
| ThOD                      | 2.49 g O <sub>2</sub> /g substance |
| BOD (% of ThOD)           | 0.32                               |

### 12.3. Bioaccumulative potential

| Petroseal <sup>C6</sup> 6 |   |
|---------------------------|---|
| Bioaccumulative potential | The product is not expected to bioaccumulate. |

| 2-(2-Butoxyethoxy)ethanol (112-34-5) |                                |
|--------------------------------------|--------------------------------|
| BCF fish 1                           | 0.46 (QSAR)                    |
| Log Pow                              | 0.56 (Experimental value)      |
| Bioaccumulative potential            | Low bioaccumulation potential. |

| Ethane-1,2-diol (107-21-1)    |                                       |
|-------------------------------|---------------------------------------|
| BCF fish 1                    | 10 (72 h; Leuciscus idus)             |
| BCF other aquatic organisms 1 | 0.21 - 0.6 (Procambarus sp.; Chronic) |
| BCF other aquatic organisms 2 | 190 (24 h; Algae)                     |
| Log Pow                       | -1.34 (Experimental value)            |
| Bioaccumulative potential     | Low bioaccumulation potential.        |

| 2-methyl-2,4-pentanediol (107-41-5) |                                |
|-------------------------------------|--------------------------------|
| Log Pow                             | 0.58 (QSAR)                    |
| Bioaccumulative potential           | Low bioaccumulation potential. |

| 2-Aminoethanol (141-43-5) |       |
|---------------------------|-------|
| Log Pow                   | -1.91 |

### 12.4. Mobility in soil

| 2-(2-Butoxyethoxy)ethanol (112-34-5) |                   |
|--------------------------------------|-------------------|
| Surface tension                      | 0.034 N/m (25 °C) |

| Ethane-1,2-diol (107-21-1) |  |
|----------------------------|--|
| Surface tension            | 0.048 N/m (20 °C)                                      |
| Ecology - soil             | No (test) data on mobility of the substance available. |

| 2-methyl-2,4-pentanediol (107-41-5) |                        |
|-------------------------------------|------------------------|
| Surface tension                     | 0.033 N/m              |
| Ecology - soil                      | Highly mobile in soil. |

| 2-Aminoethanol (141-43-5) |  |
|---------------------------|--|
| Surface tension           | 0.05 N/m   |
| Ecology - soil            | No (test) data on mobility of the substance available. |

### 12.5. Results of PBT and vPvB assessment

| Petroseal <sup>C6</sup> 6                     |  |
|---|--|
| PBT: not relevant – no registration required  |  |
| vPvB: not relevant – no registration required |  |

| Component                           |   |
|-------------------------------------|---|
| 2-methyl-2,4-pentanediol (107-41-5) | 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 |
| Ethane-1,2-diol (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 |

### 12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 16 03 05\* - organic wastes containing dangerous substances

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : Not applicable

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|               |                  |
|---------------|------------------|
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

#### IMDG

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

#### IATA

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

#### ADN

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not applicable |
|----------------------------------|------------------|

#### RID

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not applicable |
|----------------------------------|------------------|

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|  |  |
|--|--|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008   | 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol - 2-(2-Butoxyethoxy)ethanol  |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Petroseal <sup>C6</sup> 6 - 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol - 2-Aminoethanol - 2-methyl-2,4-pentandiol - 2-(2-Butoxyethoxy)ethanol - Ethane-1,2-diol |
| 55. 2-(2-butoxyethoxy)ethanol (DEGBE)  | 2-(2-Butoxyethoxy)ethanol  |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

##### 15.1.2. National regulations

###### Germany

VwVwS Annex reference : Water hazard class (WGK) 2, significant hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

###### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2   |
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4  |
| 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                          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1A   |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT RE 1                           | Specific target organ toxicity — Repeated exposure, Category 1                             |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2                             |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |

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|      |  |
|------|--|
| H302 | Harmful if swallowed.  |
| H312 | Harmful in contact with skin.                                      |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                               |
| H319 | Causes serious eye irritation.                                     |
| H330 | Fatal if inhaled.  |
| H332 | Harmful if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H372 | Causes damage to organs through prolonged or repeated exposure.    |
| 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.              |

SDS EU (REACH Annex II) - Angus Fire

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*