

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

Product form : Mixture  
 Product name : Filmfoam<sup>C6</sup> A 933 FP  
 Product code : 4- AAF-A933F  
 Type of product : Firefighting foam concentrate (AR-AFFF)

**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  
 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**

Kerr Fire Ltd  
 Station Road  
 LA2 7NA Bentham - United Kingdom  
 T +44(0) 1524 264 037  
[support@kerrfire.co.uk](mailto:support@kerrfire.co.uk) - [www.kerrfire.co.uk](http://www.kerrfire.co.uk)

**1.4. Emergency telephone number**

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

| Country        | Organisation/Company  | Address                           | Emergency number | Comment |
|----------------|---|-----------------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH Birmingham | 0344 892 0111    |         |

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**

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

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of 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

GHS08

Signal word (CLP) :

Warning

Hazardous ingredients :

Ethane-1,2-diol

Hazard statements (CLP) :

H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
 H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling.  
 P280 - Wear eye protection, protective clothing, protective gloves  
 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.

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

### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

## 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]                                 |
|---|--|---------|---|
| 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 | 10 - 25 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373  |
| 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 | 10 - 25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| Sodium octyl sulphate   | (CAS-No.) 142-31-4<br>(EC-No.) 205-535-5<br>(REACH-no) 01-2119966154-35                                | 1 - 4   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318   |
| Sodium decyl sulphate   | (CAS-No.) 142-87-0<br>(EC-No.) 205-568-5<br>(REACH-no) 01-2119970328-30                                | 1 - 4   | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| Ethanol<br>substance with national workplace exposure limit(s) (BE, FR, GB, NL) | (CAS-No.) 64-17-5<br>(EC-No.) 200-578-6<br>(EC Index-No.) 603-002-00-5                                 | 0.1 - 1 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319  |
| Diethanolamine<br>substance with national workplace exposure limit(s) (BE, FR)  | (CAS-No.) 111-42-2<br>(EC-No.) 203-868-0<br>(EC Index-No.) 603-071-00-1                                | < 0.1   | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT RE 2, H373         |

#### Specific concentration limits:

| Name                  | Product identifier  | Specific concentration limits   |
|-----------------------|---|---|
| Sodium octyl sulphate | (CAS-No.) 142-31-4<br>(EC-No.) 205-535-5<br>(REACH-no) 01-2119966154-35 | ( 10 =<C < 20) Eye Irrit. 2, H319<br>( 20 =<C < 100) Eye Dam. 1, H318 |
| Sodium decyl sulphate | (CAS-No.) 142-87-0<br>(EC-No.) 205-568-5<br>(REACH-no) 01-2119970328-30 | ( 10 =<C < 20) Eye Irrit. 2, H319<br>( 20 =<C < 100) Eye Dam. 1, H318 |

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   | : Allow affected person to breathe fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Rinse mouth. Immediately call a POISON CENTER/doctor.  |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : Causes damage to organs (kidneys) (if swallowed). |
| Symptoms/effects after skin contact | : Causes skin irritation.                           |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.                    |

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

Treat symptomatically.

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### 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.

#### 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 product 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. Read and follow the Safety Data Sheet (SDS) before use. Avoid breathing vapours.

Hygiene measures : Wash hands thoroughly after handling.

#### 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 sunlight. 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

| Ethane-1,2-diol (107-21-1) |   |  |
|----------------------------|---|--|
| 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)                            |

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| <b>Ethane-1,2-diol (107-21-1)</b>          |  |   |
|--|--|---|
| 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> |  |   |
| 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)                                 |
| 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>Ethanol (64-17-5)</b>                   |  |   |
| Belgium                                    | Limit value (mg/m <sup>3</sup> )           | 1907 mg/m <sup>3</sup>                                  |
| Belgium                                    | Limit value (ppm)                          | 1000 ppm  |
| France                                     | VME (mg/m <sup>3</sup> )                   | 1900 mg/m <sup>3</sup>                                  |
| France                                     | VME (ppm)                                  | 1000 ppm  |
| France                                     | VLE (mg/m <sup>3</sup> )                   | 9500 mg/m <sup>3</sup>                                  |
| France                                     | VLE (ppm)                                  | 5000 ppm  |
| Netherlands                                | Grenswaarde TGG 8H (mg/m <sup>3</sup> )    | 260 mg/m <sup>3</sup>                                   |
| Netherlands                                | Grenswaarde TGG 8H (ppm)                   | 136 ppm   |
| Netherlands                                | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> ) | 1900 mg/m <sup>3</sup>                                  |
| Netherlands                                | Grenswaarde TGG 15MIN (ppm)                | 992 ppm   |
| United Kingdom                             | WEL TWA (mg/m <sup>3</sup> )               | 1920 mg/m <sup>3</sup>                                  |
| United Kingdom                             | WEL TWA (ppm)                              | 1000 ppm  |
| USA - ACGIH                                | ACGIH STEL (ppm)                           | 1000 ppm  |
| <b>Diethanolamine (111-42-2)</b>           |  |   |
| Belgium                                    | Limit value (mg/m <sup>3</sup> )           | 1 mg/m <sup>3</sup>                                     |
| Belgium                                    | Limit value (ppm)                          | 0.2 ppm   |
| France                                     | VME (mg/m <sup>3</sup> )                   | 15 mg/m <sup>3</sup>                                    |
| France                                     | VME (ppm)                                  | 3 ppm   |
| USA - ACGIH                                | ACGIH TWA (mg/m <sup>3</sup> )             | 1 mg/m <sup>3</sup> (Inhalable fraction and vapor)      |

### 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 (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.2 mm coating thickness

#### Eye protection:

Sealed safety goggles

#### Skin and body protection:

Wear suitable protective clothing. Wear suitable protective clothing

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### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (recommended filter type A2/P2)

### 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                                     | : Light amber.      |
| Odour                                      | : Characteristic.   |
| Odour threshold                            | : No data available |
| pH   | : 7 - 8             |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : -12 °C            |
| Boiling point                              | : No data available |
| Flash point                                | : > 100 °C          |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : No data available |
| Density                                    | : 1.01 - 1.05       |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : 2300 - 3000 cP    |
| 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 (NOx). Sodium oxides.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>Ethane-1,2-diol (107-21-1)</b> |  |
|-----------------------------------|--|
| LD50 oral rat                     | 7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s)) |
| LD50 dermal                       | > 3500 mg/kg bodyweight (Mouse, Male / female, Experimental value, Dermal)   |
| LC50 inhalation rat (mg/l)        | > 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))   |

| <b>2-methyl-2,4-pentanediol (107-41-5)</b> |  |
|--|--|
| LD50 oral rat                              | > 2000 mg/kg bodyweight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rat                            | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)                  |
| LC50 inhalation rat (mg/l)                 | > 55 g/m <sup>3</sup> (Equivalent or similar to OECD 403, 8 h, Rat, Male, Experimental value, Inhalation (vapours))              |

| <b>Ethanol (64-17-5)</b>   |   |
|----------------------------|---|
| LD50 oral rat              | 10740 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)            |
| LD50 dermal rabbit         | > 16000 mg/kg (Rabbit, Literature study, Dermal)  |
| LC50 inhalation rat (mg/l) | 117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) |

| <b>Diethanolamine (111-42-2)</b> |  |
|----------------------------------|--|
| LD50 oral rat                    | 1600 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit               | 7640 mg/kg (Rabbit, Dermal)  |

| <b>Sodium decyl sulphate (142-87-0)</b> |  |
|---|--|
| LD50 oral rat                           | 1200 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Read-across, Oral)             |
| LD50 dermal rat                         | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal) |

| <b>Sodium octyl sulphate (142-31-4)</b> |  |
|---|--|
| LD50 oral rat                           | > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat                         | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))           |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: 7 - 8  |
| Serious eye damage/irritation     | : Causes serious eye irritation.<br>pH: 7 - 8   |
| Respiratory or skin sensitisation | : Not classified  |
| Germ cell mutagenicity            | : Not classified  |
| Carcinogenicity                   | : Not classified  |
| Reproductive toxicity             | : Not classified  |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed). |
| Aspiration hazard                 | : Not classified  |

### SECTION 12: Ecological information

#### 12.1. Toxicity

| <b>Ethane-1,2-diol (107-21-1)</b> |   |
|-----------------------------------|---|
| LC50 fish 1                       | 40761 mg/l (96 h, Salmo gairdneri, Static system) |
| EC50 Daphnia 1                    | > 10000 mg/l (24 h, Daphnia magna)                |
| EC50 96h algae (1)                | 6.5 - 13 g/l (Selenastrum capricornutum, Growth)  |

| <b>2-methyl-2,4-pentanediol (107-41-5)</b> |  |
|--|--|
| LC50 fish 1                                | 9450 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) |

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| <b>2-methyl-2,4-pentanediol (107-41-5)</b> |  |
|--|--|
| EC50 Daphnia 1                             | 5410 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)                                 |
| ErC50 (algae)                              | > 429 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)                       |
| <b>Ethanol (64-17-5)</b>                   |  |
| LC50 fish 1                                | 14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)   |
| EC50 72h algae (1)                         | 275 mg/l (Equivalent or similar to OECD 201, Chlorella vulgaris, Static system, Fresh water, Experimental value, Growth rate)                                    |
| <b>Diethanolamine (111-42-2)</b>           |  |
| LC50 fish 1                                | 1664 mg/l (96 h, Pimephales promelas, Static system)   |
| EC50 Daphnia 1                             | 55 mg/l (48 h, Daphnia magna)  |
| EC50 72h algae (1)                         | 75 mg/l (Scenedesmus subspicatus)  |
| <b>Sodium decyl sulphate (142-87-0)</b>    |  |
| LC50 fish 1                                | 13 mg/l (JIS K0102-1986-71, 48 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration)  |
| EC50 Daphnia 1                             | 470 mg/l (24 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect)  |
| ErC50 (algae)                              | 8.64 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |
| <b>Sodium octyl sulphate (142-31-4)</b>    |  |
| LC50 fish 1                                | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)                                    |
| EC50 Daphnia 1                             | > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)         |
| ErC50 (algae)                              | > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  |

### 12.2. Persistence and degradability

| <b>Ethane-1,2-diol (107-21-1)</b>          |  |
|--|--|
| Persistence and degradability              | Biodegradable in the soil. 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>Ethanol (64-17-5)</b>                   |  |
| Persistence and degradability              | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD)            | 0.8 - 0.967 g O <sub>2</sub> /g substance                  |
| Chemical oxygen demand (COD)               | 1.7 g O <sub>2</sub> /g substance                          |
| ThOD                                       | 2.1 g O <sub>2</sub> /g substance                          |
| BOD (% of ThOD)                            | 0.43   |
| <b>Diethanolamine (111-42-2)</b>           |  |
| Persistence and degradability              | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD)            | 0.22 g O <sub>2</sub> /g substance                         |
| Chemical oxygen demand (COD)               | 1.52 g O <sub>2</sub> /g substance                         |
| ThOD                                       | 2.13 g O <sub>2</sub> /g substance                         |
| BOD (% of ThOD)                            | 0.1  |
| <b>Sodium decyl sulphate (142-87-0)</b>    |  |
| Persistence and degradability              | Readily biodegradable in water.                            |
| <b>Sodium octyl sulphate (142-31-4)</b>    |  |
| Persistence and degradability              | Readily biodegradable in water.                            |

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### 12.3. Bioaccumulative potential

| <b>Filmfoam<sup>C6</sup> A 933 FP</b>      |   |
|--|---|
| Bioaccumulative potential                  | The product is not expected to bioaccumulate.   |
| <b>Ethane-1,2-diol (107-21-1)</b>          |   |
| BCF fish 1                                 | 10 (72 h, <i>Leuciscus idus</i> )   |
| BCF other aquatic organisms 1              | 0.21 - 0.6 ( <i>Procambarus</i> sp., Chronic)   |
| BCF other aquatic organisms 2              | 190 (24 h, Algae)   |
| Log Pow                                    | -1.34 (Experimental value)  |
| Bioaccumulative potential                  | Not bioaccumulative.  |
| <b>2-methyl-2,4-pentanediol (107-41-5)</b> |   |
| Log Pow                                    | 0.58 (QSAR)   |
| Bioaccumulative potential                  | Low potential for bioaccumulation (Log Kow < 4).  |
| <b>Ethanol (64-17-5)</b>                   |   |
| BCF fish 1                                 | 1 (Other, 72 h, <i>Cyprinus carpio</i> , Static system, Fresh water, Read-across)                         |
| Log Pow                                    | -0.31 (Experimental value)  |
| Bioaccumulative potential                  | Not bioaccumulative.  |
| <b>Diethanolamine (111-42-2)</b>           |   |
| Log Pow                                    | -2.18 - -1.43 (Experimental value)  |
| Bioaccumulative potential                  | Not bioaccumulative.  |
| <b>Sodium decyl sulphate (142-87-0)</b>    |   |
| Log Pow                                    | 1.72 (Experimental value, OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method, 25 °C) |
| Bioaccumulative potential                  | Low potential for bioaccumulation (Log Kow < 4).  |
| <b>Sodium octyl sulphate (142-31-4)</b>    |   |
| BCF fish 1                                 | 3.162 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)  |
| Log Pow                                    | < -2.31 (Calculated, 20 °C)   |
| Bioaccumulative potential                  | Low potential for bioaccumulation (BCF < 500).  |

### 12.4. Mobility in soil

| <b>Ethane-1,2-diol (107-21-1)</b>          |   |
|--|---|
| Surface tension                            | 48 mN/m (20 °C)   |
| Ecology - soil                             | No (test) data on mobility of the substance available.                    |
| <b>2-methyl-2,4-pentanediol (107-41-5)</b> |   |
| Surface tension                            | 0.033 N/m   |
| Ecology - soil                             | Highly mobile in soil.  |
| <b>Ethanol (64-17-5)</b>                   |   |
| Surface tension                            | 0.022 N/m (20 °C)   |
| Ecology - soil                             | Highly mobile in soil.  |
| <b>Sodium decyl sulphate (142-87-0)</b>    |   |
| Surface tension                            | 33.2 mN/m (24 °C, 1 g/l, EU Method A.5: Surface tension)                  |
| Log Koc                                    | 2.09 - 2.25 (log Koc, Experimental value)                                 |
| Ecology - soil                             | Low potential for adsorption in soil.                                     |
| <b>Sodium octyl sulphate (142-31-4)</b>    |   |
| Surface tension                            | 58.4 mN/m (21.5 °C, 1 g/l, EU Method A.5: Surface tension)                |
| Log Koc                                    | 1.88 - 2 (log Koc, Equivalent or similar to OECD 121, Experimental value) |
| Ecology - soil                             | Highly mobile in soil.  |

### 12.5. Results of PBT and vPvB assessment

| <b>Filmfoam<sup>C6</sup> A 933 FP</b>         |   |
|---|---|
| PBT: not relevant – no registration required  |   |
| vPvB: not relevant – no registration required |   |
| <b>Component</b>                              |   |
| 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 |
| 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 |
| Ethanol (64-17-5)                             | 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 |



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| Component                        |   |
|----------------------------------|---|
| Sodium decyl sulphate (142-87-0) | 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 |
| Sodium octyl sulphate (142-31-4) | 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 |

### 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

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

### 14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

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

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

|  |         |
|--|---------|
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | Ethanol |
|--|---------|

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|  |  |
|--|--|
| 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 | Filmfoam <sup>C6</sup> A 933 FP - Ethane-1,2-diol - 2-methyl-2,4-pentanediol - Ethanol |
| 3(a) 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 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F          | Ethanol  |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### 15.1.2. National regulations

#### France

Occupational diseases : RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

#### Germany

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

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 : Ethane-1,2-diol ,2-methyl-2,4-pentanediol,Ethanol,Diethanolamine are listed

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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Ethanol is 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 additional information available

## 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.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment — Chronic Hazard, Category 3  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                      |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                      |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                              |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2     |
| H225                                | Highly flammable liquid and vapour.                                |
| H302                                | Harmful if swallowed.  |
| H315                                | Causes skin irritation.  |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.                                     |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H412                                | Harmful to aquatic life with long lasting effects.                 |

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*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.*