

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

Product form : Mixture  
 Product name : Fluorofoam<sup>C6</sup> 903 Extra  
 Product code : 4-FPR-903EXTRA  
 Type of product : Firefighting foam concentrate (FP)

**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 Kindom  
 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 sensitisation, Category 1 H317

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

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.  
 P280 - Wear eye protection, protective clothing, protective gloves  
 P302+P352 - IF ON SKIN: Wash with plenty of water  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 - Take off contaminated clothing and wash it before reuse.  
 P501 - Dispose in a safe manner in accordance with local/national regulations

**2.3. Other hazards**

PBT: not relevant – no registration required

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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]   |
|---|---|---------|---|
| 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   |
| Zinc chloride   | (CAS-No.) 7646-85-7<br>(EC-No.) 231-592-0<br>(EC Index-No.) 030-003-00-2<br>(REACH-no) 01-2119472431-44 | 0.1 - 1 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Iron(II) sulphate, heptahydrate<br>substance with national workplace exposure limit(s) (BE, GB) | (CAS-No.) 7782-63-0<br>(EC-No.) 231-753-5<br>(EC Index-No.) 026-003-01-4<br>(REACH-no) 01-2119513203-57 | 0.1 - 1 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  |
| 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>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT RE 1, H372       |
| 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                                 | < 0.05  | 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        |
|---|---|--------------------------------------|
| Zinc chloride   | (CAS-No.) 7646-85-7<br>(EC-No.) 231-592-0<br>(EC Index-No.) 030-003-00-2<br>(REACH-no) 01-2119472431-44 | ( 5 =<C < 100) STOT SE 3, H335       |
| Iron(II) sulphate, heptahydrate                           | (CAS-No.) 7782-63-0<br>(EC-No.) 231-753-5<br>(EC Index-No.) 026-003-01-4<br>(REACH-no) 01-2119513203-57 | ( 25 =<C < 100) Skin Irrit. 2, H315  |
| 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 =<C <= 100) Skin Sens. 1, H317 |

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 : 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.
- 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.

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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 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 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

| Iron(II) sulphate, heptahydrate (7782-63-0) |                                  |                         |
|---|----------------------------------|-------------------------|
| Belgium                                     | Limit value (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup>     |
| United Kingdom                              | WEL TWA (mg/m <sup>3</sup> )     | 1 mg/m <sup>3</sup>     |
| United Kingdom                              | WEL STEL (mg/m <sup>3</sup> )    | 2 mg/m <sup>3</sup>     |
| USA - ACGIH                                 | ACGIH TWA (mg/m <sup>3</sup> )   | 1 mg/m <sup>3</sup>     |
| 2-methyl-2,4-pentanediol (107-41-5)         |                                  |                         |
| 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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| 2-methyl-2,4-pentanediol (107-41-5) |                                       |   |
|-------------------------------------|---------------------------------------|---|
| 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)                                 |
| Diethanolamine (111-42-2)           |                                       |   |
| 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)      |
| Zinc chloride (7646-85-7)           |                                       |   |
| Belgium                             | Limit value (mg/m <sup>3</sup> )      | 1 mg/m <sup>3</sup>                                     |
| Belgium                             | Short time value (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>                                     |
| France                              | VME (mg/m <sup>3</sup> )              | 1 mg/m <sup>3</sup>                                     |
| United Kingdom                      | WEL TWA (mg/m <sup>3</sup> )          | 1 mg/m <sup>3</sup>                                     |
| United Kingdom                      | WEL STEL (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup>                                     |
| USA - ACGIH                         | ACGIH TWA (mg/m <sup>3</sup> )        | 1 mg/m <sup>3</sup>                                     |
| USA - ACGIH                         | ACGIH STEL (mg/m <sup>3</sup> )       | 2 mg/m <sup>3</sup>                                     |

### 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

#### 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                                     | : Dark brown.       |
| Odour                                      | : Characteristic.   |
| Odour threshold                            | : No data available |
| pH   | : 6.6 - 7.6         |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : -16 °C            |
| Boiling point                              | : No data available |
| Flash point                                | : > 100 °C          |
| Auto-ignition temperature                  | : No data available |

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|                                  |                               |
|----------------------------------|-------------------------------|
| 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                          | : 1.14 - 1.18                 |
| Solubility                       | : No data available           |
| Log Pow                          | : No data available           |
| Viscosity, kinematic             | : 7.6 - 11 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

| <b>Iron(II) sulphate, heptahydrate (7782-63-0)</b>                           |  |
|--|--|
| LD50 oral rat  | 1480 mg/kg (Rat, Oral)   |
| <b>2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (4719-04-4)</b> |  |
| LD50 oral rat  | 763 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)  |
| LD50 dermal rat  | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, Rat, Male / female, Experimental value, Dermal)                        |
| LC50 inhalation rat (mg/l)   | 0.371 mg/l (OECD 403: Acute Inhalation Toxicity, 4 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>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>Zinc chloride (7646-85-7)</b>   |  |
| LD50 oral rat  | 1100 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)                                       |
| LD50 dermal rabbit   | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Read-across, Dermal)                                     |
| LC50 inhalation rat (mg/l)   | 2 mg/l air (Other, 10 minutes, Rat, Female, Experimental value, Inhalation (aerosol))  |

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|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not classified<br>pH: 6.6 - 7.6      |
| Serious eye damage/irritation     | : Not classified<br>pH: 6.6 - 7.6      |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |
| Reproductive toxicity             | : Not classified                       |
| STOT-single exposure              | : Not classified                       |
| STOT-repeated exposure            | : Not classified                       |
| Aspiration hazard                 | : Not classified                       |

|  |                             |
|--|-----------------------------|
| <b>Fluorofoam<sup>C6</sup> 903 Extra</b> |                             |
| Viscosity, kinematic                     | 7.6 - 11 mm <sup>2</sup> /s |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|  |  |
|--|--|
| <b>Iron(II) sulphate, heptahydrate (7782-63-0)</b>                           |  |
| LC50 fish 1  | 925 mg/l (96 h, Poecilia reticulata, Static system)  |
| EC50 Daphnia 1   | 152 mg/l (48 h, Daphnia magna, Anhydrous form)   |
| <b>2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (4719-04-4)</b> |  |
| LC50 fish 1  | 16.07 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Experimental value, GLP)             |
| EC50 Daphnia 1   | 11.9 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)      |
| EC50 72h algae (1)   | 6.66 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)           |
| <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)           |
| 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>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>Zinc chloride (7646-85-7)</b>   |  |
| LC50 fish 1  | 169 µg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)                  |
| EC50 Daphnia 1   | 330 µg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)        |
| NOEC chronic algae   | 0.019 mg/l (Pseudokirchneriella subcapitata)   |

#### 12.2. Persistence and degradability

|  |  |
|--|--|
| <b>Iron(II) sulphate, heptahydrate (7782-63-0)</b>                           |  |
| Persistence and degradability  | Biodegradability in soil: no data available. Biodegradability in water: no data available. |
| <b>2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (4719-04-4)</b> |  |
| Persistence and degradability  | Readily biodegradable in water.  |
| <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>Diethanolamine (111-42-2)</b>   |  |
| Persistence and degradability  | Biodegradable in the soil. Readily biodegradable in water.                                 |

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| <b>Diethanolamine (111-42-2)</b> |                                    |
|----------------------------------|------------------------------------|
| 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>Zinc chloride (7646-85-7)</b> |  |
|----------------------------------|--|
| Persistence and degradability    | Biodegradability in soil: not applicable. Inhibition of nitrification. Biodegradability: not applicable. |
| Chemical oxygen demand (COD)     | Not applicable (inorganic)   |
| ThOD                             | Not applicable (inorganic)   |

### 12.3. Bioaccumulative potential

| <b>Fluorofoam<sup>C6</sup> 903 Extra</b> |   |
|--|---|
| Bioaccumulative potential                | The product is not expected to bioaccumulate. |

| <b>Iron(II) sulphate, heptahydrate (7782-63-0)</b> |                      |
|--|----------------------|
| Bioaccumulative potential                          | Not bioaccumulative. |

| <b>2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (4719-04-4)</b> |                      |
|--|----------------------|
| Log Pow  | -4.67 (Calculated)   |
| 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>Diethanolamine (111-42-2)</b> |                                    |
|----------------------------------|------------------------------------|
| Log Pow                          | -2.18 - -1.43 (Experimental value) |
| Bioaccumulative potential        | Not bioaccumulative.               |

| <b>Zinc chloride (7646-85-7)</b> |   |
|----------------------------------|---|
| BCF fish 1                       | 58 - 457 (Cyprinus carpio, Test duration: 10 weeks) |
| Bioaccumulative potential        | Bioaccumulation: not applicable.                    |

### 12.4. Mobility in soil

| <b>Iron(II) sulphate, heptahydrate (7782-63-0)</b> |                        |
|--|------------------------|
| Ecology - soil                                     | Adsorbs into the soil. |

| <b>2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (4719-04-4)</b> |   |
|--|---|
| Log Koc  | 1 (log Koc, PCKOCWIN v1.66, Calculated value) |

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

| <b>Zinc chloride (7646-85-7)</b> |   |
|----------------------------------|---|
| Ecology - soil                   | No (test)data on mobility of the substance available. Soil contaminant. |

### 12.5. Results of PBT and vPvB assessment

| <b>Fluorofoam<sup>C6</sup> 903 Extra</b>      |  |
|---|--|
| PBT: not relevant – no registration required  |  |
| vPvB: not relevant – no registration required |  |

| <b>Component</b>                    |   |
|-------------------------------------|---|
| 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 |
| Zinc chloride (7646-85-7)           | 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

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### 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:

|  |   |
|--|---|
| 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 | Fluorofoam <sup>C6</sup> 903 Extra - 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol - 2-methyl-2,4-pentanediol |
|--|---|

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) 3, Highly 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 : 2-methyl-2,4-pentanediol, Diethanolamine are listed

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



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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 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. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2   |
| 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 Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B   |
| 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 |
| H302                                | Harmful if swallowed.  |
| H314                                | Causes severe skin burns and eye damage.   |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H330                                | Fatal 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) - Kerr 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.*