

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

**Product identifier** 

Product form : Mixture

: Filmfoam<sup>C6</sup> A 913 Product name Product code : 4-AAF-A913

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

Uses advised against 1.2.2. 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 - www.kerrfire.co.uk

#### **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) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1.

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

Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 H319

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

Hazard statements (CLP) H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

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

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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]
2-methyl-2,4-pentanediol	(CAS-No.) 107-41-5 (EC-No.) 203-489-0 (EC Index-No.) 603-053-00-3 (REACH-no) 01-2119539582-35	10 - 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Sodium octyl sulphate	(CAS-No.) 142-31-4 (EC-No.) 205-535-5 (REACH-no) 01-2119966154-35	1 - 4	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium decyl sulphate	(CAS-No.) 142-87-0 (EC-No.) 205-568-5 (REACH-no) 01-2119970328-30	1 - 4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	1 - 4	Flam. Liq. 2, H225 Eye Irrit. 2, H319
D-Glucopyranose, oligomers, decyl octyl glycosides	(CAS-No.) 68515-73-1 (EC-No.) 500-220-1 (REACH-no) 01-2119488530-36	1 - 4	Eye Dam. 1, H318
Ethane-1,2-diol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (BE, FR, GB, NL)	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	0.1 - 1	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
2-(2-butoxyethoxy)ethanol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (BE, FR, GB, NL)	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8 (REACH-no) 01-2119475104-44	0.1 - 1	Eye Irrit. 2, H319
2-methyl-2-propanol substance with national workplace exposure limit(s) (BE, FR, GB)	(CAS-No.) 75-65-0 (EC-No.) 200-889-7 (EC Index-No.) 603-005-00-1 (REACH-no) 01-2119444321-51	0.05 - 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT SE 3, H335
Diethanolamine substance with national workplace exposure limit(s) (BE, FR)	(CAS-No.) 111-42-2 (EC-No.) 203-868-0 (EC Index-No.) 603-071-00-1	< 0.05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sodium octyl sulphate	(CAS-No.) 142-31-4 (EC-No.) 205-535-5 (REACH-no) 01-2119966154-35	( 10 = <c 2,="" 20)="" <="" eye="" h319<br="" irrit.="">( 20 =<c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c></c>
Sodium decyl sulphate	(CAS-No.) 142-87-0 (EC-No.) 205-568-5 (REACH-no) 01-2119970328-30	( 10 = <c 2,="" 20)="" <="" eye="" h319<br="" irrit.="">( 20 =<c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c></c>

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. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after skin contact : Causes skin irritation.

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Symptoms/effects after eye contact : Causes serious eye irritation.

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.

5.2. Special hazards arising from the substance or mixtureFire 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.

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

2-methyl-2,4-pentanediol (107-41-5)		
Belgium	Limit value (mg/m³)	123 mg/m³
Belgium	Limit value (ppm)	25 ppm
France	VLE (mg/m³)	125 mg/m³
France	VLE (ppm)	25 ppm
United Kingdom	WEL TWA (mg/m³)	123 mg/m³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m³)	123 mg/m³
United Kingdom	WEL STEL (ppm)	25 ppm
USA - ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)
USA - ACGIH	ACGIH STEL (mg/m³)	10 mg/m³ (Inhalable fraction, Aerosol only)
USA - ACGIH	ACGIH STEL (ppm)	50 ppm (Vapor fraction)
Ethanol (64-17-5)		
Belgium	Limit value (mg/m³)	1907 mg/m³

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Ethanol (64-17-5)		
Belgium	Limit value (ppm)	1000 ppm
France	VME (mg/m³)	1900 mg/m³
France	VME (ppm)	1000 ppm
France	VLE (mg/m³)	9500 mg/m³
France	VLE (ppm)	5000 ppm
Netherlands	Grenswaarde TGG 8H (mg/m³)	260 mg/m³
Netherlands	Grenswaarde TGG 8H (ppm)	136 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	1900 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m²)  Grenswaarde TGG 15MIN (ppm)	992 ppm
United Kingdom	WEL TWA (mg/m³)	1920 mg/m³
	WEL TWA (mg/m²) WEL TWA (ppm)	
United Kingdom	W. /	1000 ppm
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
Ethane-1,2-diol (107-21-1)		
EU	IOELV TWA (mg/m³)	52 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m³)	104 mg/m³
EU	IOELV STEL (ppm)	40 ppm
Belgium	Limit value (mg/m³)	52 mg/m³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m³)	104 mg/m³
Belgium	Short time value (ppm)	40 ppm
France	VME (mg/m³)	52 mg/m³
France	VME (ppm)	20 ppm
France	VLE (mg/m³)	104 mg/m³
France	VLE (ppm)	40 ppm
Netherlands	Grenswaarde TGG 8H (mg/m³)	52 mg/m³ (damp) 10 mg/m³ (druppels)
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm (damp) 3.9 ppm (druppels)
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	104 mg/m³ (damp)
Netherlands	Grenswaarde TGG 15MIN (ppm)	40 ppm (damp)
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ 52 mg/m³
United Kingdom	WEL TWA (ppm)	20 ppm
United Kingdom	WEL STEL (mg/m³)	104 mg/m³
United Kingdom	WEL STEL (ppm)	40 ppm
USA - ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)
USA - ACGIH	ACGIH STEL (mg/m³)	10 mg/m³ (Inhalable fraction, Aerosol only)
USA - ACGIH	ACGIH STEL (ppm)	50 ppm (Vapor fraction)
2-(2-butoxyethoxy)ethanol (1	The state of the s	
EU	IOELV TWA (mg/m³)	67.5 mg/m³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m³)	101.2 mg/m³
EU	IOELV STEL (ppm)	15 ppm
Belgium	Limit value (mg/m³)	67.5 mg/m³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m³)	101.2 mg/m³
Belgium	Short time value (ppm)	15 ppm
France	VME (mg/m³)	67.5 mg/m³
France	VME (ppm)	10 ppm
France	VLE (mg/m³)	101.2 mg/m³
France	VLE (mg/m²) VLE (ppm)	15 ppm
Netherlands	Grenswaarde TGG 8H (mg/m³)	50 mg/m³
Netherlands	Grenswaarde TGG 8H (ppm)	7.4 ppm
	***	***
Netherlands Netherlands	Grenswaarde TGG 15MIN (mg/m³)  Grenswaarde TGG 15MIN (ppm)	100 mg/m³
Netherlands United Kingdom	<del>i</del>	15 ppm 67.5 mg/m³
United Kingdom	WEL TWA (mg/m³)	
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m³)	101.2 mg/m³

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2-(2-butoxyethoxy)ethanol (112-34-5)			
United Kingdom	WEL STEL (ppm)	15 ppm	
USA - ACGIH	ACGIH TWA (ppm)	10 ppm (Inhalable fraction and vapor)	
2-methyl-2-propanol (75-65-0	2-methyl-2-propanol (75-65-0)		
Belgium	Limit value (mg/m³)	307 mg/m³	
Belgium	Limit value (ppm)	100 ppm	
France	VME (mg/m³)	300 mg/m³	
France	VME (ppm)	100 ppm	
United Kingdom	WEL TWA (mg/m³)	308 mg/m³	
United Kingdom	WEL TWA (ppm)	100 ppm	
United Kingdom	WEL STEL (mg/m³)	462 mg/m³	
United Kingdom	WEL STEL (ppm)	150 ppm	
USA - ACGIH	ACGIH TWA (ppm)	100 ppm	
Diethanolamine (111-42-2)	Diethanolamine (111-42-2)		
Belgium	Limit value (mg/m³)	1 mg/m³	
Belgium	Limit value (ppm)	0.2 ppm	
France	VME (mg/m³)	15 mg/m³	
France	VME (ppm)	3 ppm	
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (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

### 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**

Physical state : Liquid
Colour : Amber.
Odour : Characteristic.
Odour threshold : No data available

Information on basic physical and chemical properties

pH : 7.5 - 8.5

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available

Freezing point : -8 °C

Boiling point : No data available

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: > 100 °C Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature 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 : 1.01 - 1.05 Density Solubility : No data available Log Pow : No data available Viscosity, kinematic : No data available : 1300 - 1900 cP Viscosity, dynamic Explosive properties : No data available : No data available Oxidising properties 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.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

2-methyl-2,4-pentanediol (107-41-5)		
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/m³ (Equivalent or similar to OECD 403, 8 h, Rat, Male, Experimental value, Inhalation (vapours))	
Ethanol (64-17-5)		
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)	
Ethane-1,2-diol (107-21-1)		
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))	
2-(2-butoxyethoxy)ethanol (112-34-5)		
LD50 oral	2410 - 5530 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral)	

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2-(2-butoxyethoxy)ethanol (112-34-5)		
LD50 dermal rabbit	2764 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)	
2-methyl-2-propanol (75-65-0)		
LD50 oral rat	3046 mg/kg bodyweight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 2000 mg/kg bodyweight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 inhalation rat (mg/l)	> 36 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
Diethanolamine (111-42-2)		
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)	
Sodium decyl sulphate (142-87-0)		
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, Readacross, Dermal)	
Sodium octyl sulphate (142-31-4)		
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.	
	pH: 7.5 - 8.5	
Serious eye damage/irritation	: Causes serious eye irritation.	
	pH: 7.5 - 8.5	
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	: Not classified	
Aspiration hazard	: Not classified	

## **SECTION 12: Ecological information**

### 12.1. Toxicity

2-methyl-2,4-pentanediol (107-41-5)		
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)	
Ethanol (64-17-5)		
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)	
Ethane-1,2-diol (107-21-1)		
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)	
2-(2-butoxyethoxy)ethanol (112-34-5)		
LC50 fish 1	1300 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 Daphnia 1	> 100 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	

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2-(2-butoxyethoxy)ethanol (112-34-5)

2-(2-butoxyethoxy)ethanol (112-34-5)

Persistence and degradability

**2-methyl-2-propanol (75-65-0)** Persistence and degradability

Biochemical oxygen demand (BOD)

Chemical oxygen demand (COD)

Diethanolamine (111-42-2)

ThOD

BOD (% of ThOD)

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ErC50 (algae)	1101 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
2-methyl-2-propanol (75-65-0)	
LC50 fish 1	> 961 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	933 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae (1)	> 976 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Diethanolamine (111-42-2)	
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)
Sodium decyl sulphate (142-87-0)	
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)
Sodium octyl sulphate (142-31-4)	
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)
EC50 Daphnia 1 ErC50 (algae)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-
·	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect) > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water,
ErC50 (algae)  2.2. Persistence and degradability	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect) > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water,
ErC50 (algae)  2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect) > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water,
2.2. Persistence and degradability 2-methyl-2,4-pentanediol (107-41-5) Persistence and degradability	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)     > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.
2.2. Persistence and degradability 2-methyl-2,4-pentanediol (107-41-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)     > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance
ErC50 (algae)  2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance 2.2 g O <sub>2</sub> /g substance 2.3 g O <sub>2</sub> /g substance 0.01
ErC50 (algae)  2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance  1.7 g O <sub>2</sub> /g substance
ErC50 (algae)  2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance  1.7 g O <sub>2</sub> /g substance  2.1 g O <sub>2</sub> /g substance
ErC50 (algae)  2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethane-1,2-diol (107-21-1)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance  1.7 g O <sub>2</sub> /g substance  2.1 g O <sub>2</sub> /g substance  0.43
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethane-1,2-diol (107-21-1)  Persistence and degradability	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance 2.2 g O <sub>2</sub> /g substance 2.3 g O <sub>2</sub> /g substance 0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance 1.7 g O <sub>2</sub> /g substance 2.1 g O <sub>2</sub> /g substance 0.43  Biodegradable in the soil. Readily biodegradable in water.
2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethane-1,2-diol (107-21-1)  Persistence and degradability  Biochemical oxygen demand (BOD)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance  2.2 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  2.3 g O <sub>2</sub> /g substance  0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance  1.7 g O <sub>2</sub> /g substance  2.1 g O <sub>2</sub> /g substance  0.43  Biodegradable in the soil. Readily biodegradable in water.  0.47 g O <sub>2</sub> /g substance
ErC50 (algae)  2.2. Persistence and degradability  2-methyl-2,4-pentanediol (107-41-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethanol (64-17-5)  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD  BOD (% of ThOD)  Ethane-1,2-diol (107-21-1)	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)  > 511 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)  Readily biodegradable in water.  0.02 g O <sub>2</sub> /g substance 2.2 g O <sub>2</sub> /g substance 2.3 g O <sub>2</sub> /g substance 0.01  Biodegradable in the soil. Readily biodegradable in water.  0.8 - 0.967 g O <sub>2</sub> /g substance 1.7 g O <sub>2</sub> /g substance 2.1 g O <sub>2</sub> /g substance 0.43  Biodegradable in the soil. Readily biodegradable in water.

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

Readily biodegradable in water.

0 g O<sub>2</sub> /g substance

0

2.18 g O<sub>2</sub> /g substance

2.59 g O<sub>2</sub> /g substance

Not readily biodegradable in water.

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Diethanolamine (111-42-2)			
ThOD	2.13 g O <sub>2</sub> /g substance		
BOD (% of ThOD)	0.1		
Sodium decyl sulphate (142-87-0)			
Persistence and degradability	Readily biodegradable in water.		
	Trodaily blodogradable in water.		
Sodium octyl sulphate (142-31-4)  Persistence and degradability	Poodily hisdogradable in water		
	Readily biodegradable in water.		
12.3. Bioaccumulative potential			
Filmfoam <sup>C6</sup> A 913			
Bioaccumulative potential	The product is not expected to bioaccumulate.		
2-methyl-2,4-pentanediol (107-41-5)			
Log Pow	0.58 (QSAR)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Ethanol (64-17-5)			
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)		
Log Pow	-0.31 (Experimental value)		
Bioaccumulative potential	Not bioaccumulative.		
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	Not bioaccumulative.		
2-(2-butoxyethoxy)ethanol (112-34-5)			
Log Pow	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
2-methyl-2-propanol (75-65-0)			
Log Pow	0.317 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 22.5 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Diethanolamine (111-42-2)			
Log Pow	-2.181.43 (Experimental value)		
Bioaccumulative potential	Not bioaccumulative.		
Sodium decyl sulphate (142-87-0)			
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).		
Sodium octyl sulphate (142-31-4)			
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			
2-methyl-2,4-pentanediol (107-41-5)			
Surface tension	0.033 N/m		
Ecology - soil	Highly mobile in soil.		
Ethanol (64-17-5)			
Surface tension	0.022 N/m (20 °C)		
Ecology - soil	Highly mobile in soil.		
Ethane-1,2-diol (107-21-1)			
Surface tension	48 mN/m (20 °C)		
Ecology - soil	No (test)data on mobility of the substance available.		
2-(2-butoxyethoxy)ethanol (112-34-5)			
Surface tension	27 mN/m (25 °C, 0.00212 mol/g)		
Ecology - soil	Low potential for adsorption in soil.		

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2-methyl-2-propanol (75-65-0)		
Surface tension	69.8 mN/m (21 °C, 1.09 g/l, OECD 115: Surface Tension of Aqueous Solutions)	
Log Koc	0.324 - 0.707 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
Sodium decyl sulphate (142-87-0		
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.	
Sodium octyl sulphate (142-31-4)		
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

Filmfoam <sup>C6</sup> A 913		
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 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 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 This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
2-(2-butoxyethoxy)ethanol (112-34-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Sodium decyl sulphate (142-87-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Sodium octyl sulphate (142-31-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. 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	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shippi	14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					

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### 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 - 2-methyl-2-propanol	
55. 2-(2-butoxyethoxy)ethanol (DEGBE)	2-(2-butoxyethoxy)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 - 2-methyl-2-propanol	
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 913 - 2-methyl-2,4-pentanediol - Ethanol - Ethane-1,2-diol - 2-(2- butoxyethoxy)ethanol - 2-methyl-2-propanol	

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. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : 2-methyl-2,4-pentanediol,Ethanol,Ethane-1,2-diol,2-(2-butoxyethoxy)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

nting : Ethanol is listed

giftige stoffen – Vruchtbaarheid

: Ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the

product

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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 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
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	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H225	Highly flammable liquid and vapour.	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful 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.

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