

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

Product form : Mixture  
Product name : Jetfoam FF 3%  
Product code : FC 05 08  
Type of product : Firefighting foam concentrate (Fluorine Free)

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

Main use category : Professional use  
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**

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

**1.4. Emergency telephone number**

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

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

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

Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of hazard classes and H-statements : see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements**

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger  
Hazardous ingredients : Amphoteric surfactant blend  
Hazard statements (CLP) : H318 - Causes serious eye damage  
H412 - Harmful to aquatic life with long lasting effects  
Precautionary statements (CLP) : P273 - Avoid release to the environment  
P280 - Wear protective clothing, protective gloves, eye protection  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor  
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-(2-Butoxyethoxy)ethanol	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8 (REACH-no) 01-2119475104-44	10 - 25	Eye Irrit. 2, H319
Amphoteric surfactant blend	(CAS-No.) Proprietary	1 - 4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Anionic surfactant blend	(CAS-No.) Proprietary	1 - 4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Morpholine substance with a Community workplace exposure limit	(CAS-No.) 110-91-8 (EC-No.) 203-815-1 (EC Index-No.) 613-028-00-9	< 0.05	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
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 eye contact : Causes serious eye damage.

#### 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 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".

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

Hygiene measures : Wash hands 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 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

Morpholine (110-91-8)		
EU	IOELV TWA (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup> (Morpholine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	10 ppm (Morpholine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (Morpholine; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	20 ppm (Morpholine; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup> (Morpholine; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	10 ppm (Morpholine; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (Morpholine; Belgium; Short time value)
Belgium	Short time value (ppm)	20 ppm (Morpholine; Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup> (Morpholine; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	10 ppm (Morpholine; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VLE (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (Morpholine; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	20 ppm (Morpholine; France; Short time value; VRC: Valeur réglementaire contraignante)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup> (Morpholine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	9.9 ppm (Morpholine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (Morpholine; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	20 ppm (Morpholine; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup> Morpholine; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

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<b>Morpholine (110-91-8)</b>		
United Kingdom	WEL TWA (ppm)	10 ppm Morpholine; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> Morpholine; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	20 ppm Morpholine; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
USA - ACGIH	ACGIH TWA (ppm)	20 ppm (Morpholine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>		
EU	Local name	2-(2-Butoxyethoxy)ethanol
EU	IOELV TWA (mg/m <sup>3</sup> )	67.5 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	101.2 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	15 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	67.5 mg/m <sup>3</sup> (2-(2-Butoxyéthoxy)éthanol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	10 ppm (2-(2-Butoxyéthoxy)éthanol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	101.2 mg/m <sup>3</sup> (2-(2-Butoxyéthoxy)éthanol; Belgium; Short time value)
Belgium	Short time value (ppm)	15 ppm (2-(2-Butoxyéthoxy)éthanol; Belgium; Short time value)
France	Local name	2-(2-butoxyéthoxy)éthanol
France	VME (mg/m <sup>3</sup> )	67.5 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
France	VLE (mg/m <sup>3</sup> )	101.2 mg/m <sup>3</sup>
France	VLE (ppm)	15 ppm
France	Note (FR)	Valeurs réglementaires indicatives
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (2-(2-butoxyethoxy)ethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	7.4 ppm (2-(2-butoxyethoxy)ethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (2-(2-butoxyethoxy)ethanol; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	15 ppm (2-(2-butoxyethoxy)ethanol; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	67.5 mg/m <sup>3</sup> 2-(2-Butoxyethoxy)ethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	10 ppm 2-(2-Butoxyethoxy)ethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	101.2 mg/m <sup>3</sup> 2-(2-Butoxyethoxy)ethanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	15 ppm 2-(2-Butoxyethoxy)ethanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
USA - ACGIH	ACGIH TWA (ppm)	10 ppm (Diethylene glycol monobutyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)

### 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.

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### Hand protection:

Wear protective gloves (butyl rubber)

### Eye protection:

Chemical goggles or safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

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

### 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	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: 8.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -2 °C
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.99 - 1.01
Solubility	: Complete.
Log Pow	: No data available
Viscosity, kinematic	: 2 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.

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### 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. Nitrogen oxides (NOx). Sodium oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Morpholine (110-91-8)</b>	
LD50 oral rat	1420 mg/kg (Rat)
LD50 dermal rabbit	500 mg/kg (Rabbit)
<b>Anionic surfactant blend (Proprietary)</b>	
LD50 oral rat	1288 mg/kg
LD50 dermal rat	< 2000 mg/kg
LD50 dermal rabbit	> 580 mg/kg
<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>	
LD50 oral rat	5660 mg/kg (Rat)
LD50 dermal rabbit	2764 mg/kg (Rabbit; Experimental value; OECD 402 : acute dermal toxicity)

Skin corrosion/irritation : Not classified

pH: 8.5

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye damage.

pH: 8.5

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

<b>Jetfoam FF 3%</b>	
Viscosity, kinematic	2 mm <sup>2</sup> /s

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

<b>Morpholine (110-91-8)</b>	
LC50 fish 1	180 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss); Fresh water (not alkaline)
LC50 fish 2	350 ppm 96 h; Lepomis macrochirus; Fresh water (not alkaline)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
EC50 Daphnia 1	119 mg/l (24 h; Daphnia magna)
Threshold limit algae 1	4.1 mg/l (192 h; Scenedesmus quadricauda)
Threshold limit algae 2	1.7 mg/l (168 h; Microcystis aeruginosa)

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<b>Anionic surfactant blend (Proprietary)</b>	
LC50 fish 1	4.62 mg/l (96 h; <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> ); Nominal concentration)
LC50 fish 2	7.97 mg/l (96 h; <i>Brachydanio rerio</i> )
EC50 Daphnia 1	6.3 - 7.8 mg/l (48 h; <i>Daphnia magna</i> ; Static system)
EC50 Daphnia 2	12.6 mg/l (48 h; <i>Daphnia pulex</i> )
EC50 other aquatic organisms 1	18 mg/l (168 h; <i>Lemna sp.</i> )
Threshold limit other aquatic organisms 1	40 mg/l (72 h; Protozoa)
Threshold limit algae 1	14.8 mg/l (72 h; Chlorophyta)
Threshold limit algae 2	0.02 mg/l (192 h; <i>Scenedesmus quadricauda</i> ; Growth rate)

<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>	
LC50 fish 1	1300 mg/l (96 h; <i>Lepomis macrochirus</i> )
LC50 fish 2	1805 mg/l (48 h; <i>Leuciscus idus</i> )
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	2850 mg/l (24 h; <i>Daphnia magna</i> ; GLP)
EC50 Daphnia 2	> 100 mg/l (48 h; <i>Daphnia magna</i> )
TLM fish 1	10 - 100,96 h; Pisces
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	53 mg/l (192 h; <i>Microcystis aeruginosa</i> )
Threshold limit algae 2	>= 100 mg/l (96 h; <i>Scenedesmus subspicatus</i> )

### 12.2. Persistence and degradability

<b>Jetfoam FF 3%</b>	
Persistence and degradability	The product is readily biodegradable. May cause long-term adverse effects in the environment.
BOD (% of ThOD)	98 % ThOD (28 days)

<b>Morpholine (110-91-8)</b>	
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance
ThOD	2.6 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.009

<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.25 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.08 g O <sub>2</sub> /g substance
ThOD	2.173 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.11

### 12.3. Bioaccumulative potential

<b>Jetfoam FF 3%</b>	
Bioaccumulative potential	The product is not expected to bioaccumulate.

<b>Morpholine (110-91-8)</b>	
BCF fish 1	< 2.3 ( <i>Cyprinus carpio</i> ; Chronic)
BCF fish 2	< 2.8 ( <i>Oryzias latipes</i> ; Chronic)
Log Pow	-2.55

<b>Anionic surfactant blend (Proprietary)</b>	
BCF fish 1	3.9 - 5.3 (72 h; <i>Cyprinus carpio</i> )
BCF fish 2	7.15 (Pisces; Chronic)
Log Pow	1.6

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

### 12.4. Mobility in soil

<b>Morpholine (110-91-8)</b>	
Surface tension	0.0375 N/m

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Anionic surfactant blend (Proprietary)	
Surface tension	0.0252 N/m (23 °C; 1 g/l)
Log Koc	Koc, SRC PCKOCWIN v2.0; 35.13; Experimental value; log Koc; SRC PCKOCWIN v2.0; 1.545; Experimental value

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

### 12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	

### 12.6. Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 14: Transport information

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

### 14.1. UN number

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

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

**ADN**  
Transport hazard class(es) (ADN) : Not applicable

**RID**  
Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

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



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### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Jetfoam FF 3% - Morpholine - 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	Morpholine
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	Jetfoam FF 3% - Morpholine - 2-(2-Butoxyethoxy)ethanol
3(c) 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 class 4.1	Jetfoam FF 3%
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.	Morpholine
55. 2-(2-butoxyethoxy)ethanol (DEGBE)	2-(2-Butoxyethoxy)ethanol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

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

##### Netherlands

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

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

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

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

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

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

### Denmark

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

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
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. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II) - Angus Fire

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