

according to 2001/58/EC

### towalex AFFF 3% EX

Product code: 655008-Ex3

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# 1. Identification of the substance/preparation and company

1.1 Commercial product name:

towalex AFFF 3% EX

Product code: Product group:

655008-Ex3 blowing agent

Use of the substance/preparation

Fire extinguishing agent: blowing agent, liquid concentrate

1.2 Information manufacturer/supplier

TOTAL WALTHER Feuerschutz Löschmittel GmbH

Industriestraße 11 D68526 Ladenburg

Print date: 27.11.2003

Telephone: +49/(0)6203/934-0 Telefax: +49/(0)6203/934-150

Contact person: Dr. Th. Leonhardt Telephone: -299

e-mail: info@tycoint.com

Inquiry office: Laboratory

Emergency telephone number: +49/(0)6203/934-112

Additional information

liquid concentrate for the production of foam for fire fighting

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# 2. Composition/information on ingredients

Chemical characterization: (preparation)

**Hazardous components** 

(Full text of each relevant R phrase can be found in heading 16)

EC No. CAS No. Components Value Symbols R-phrases 203-961-6 112-34-5 2-(2-butoxyethoxy)-ethanol 15-30 % Xi R36

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### 3. Hazards identification

Classification

Symbols: Irritant R-phrases:

Risk of serious damage to eyes.

Explication of special hazards for human health and environment

Within expanded foam respiration is not possible, danger of suffocation!

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### 4. First aid measures

#### General information

Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use.

In case of shortness of breath, give oxygen. Keep under medical supervision for at least 48 hours. Show this safety data sheet to the doctor in attendance. No artificial aspiration mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

#### After contact with skin

Wash off with warm water.



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# **Safety Data Sheet**

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### After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### After ingestion

Remove from exposure, lie down. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). No artificial aspiration mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

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### 5. Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Extinguishing media that must not be used for safety reasons

None known.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases None known.

#### Special protective equipment for firefighters

No special technical protective measures required.

#### Additional information

No special protective measures against fire required

#### 6. Accidental release measures

### Personal precautions

Use personal protective equipment. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

#### **Environmental precautions**

Dam up. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### Methods for cleaning up/taking up

Wipe up with absorbent material (e.g. cloth, fleece). Take up mechanically and collect in suitable container for disposal.

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### 7. Handling and storage

# 7.1 Handling

#### Advice on safe handling

Use working solution immediately - Do not store. Never mix concentrates directly. Never return unused material to storage receptacle

### Advice on protection against fire and explosion

No special handling advice required

### 7.2 Storage

#### Requirements for storage rooms and vessels

Store at room temperature in the original container. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.



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Further information on storage conditions

Keep container tightly closed.

# 8. Exposure controls/personal protection

#### 8.1 Exposure limit values

#### 8.2 Exposure controls

# Protective and hygiene measures

Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Keep away from food, drink and animal feeding stuffs. When using do not eat or drink.

#### Respiratory protection

not required under normal use; May be harmful by inhalation (after often repeated exposure).

#### Hand protection

impervious gloves

#### Eye protection

safety glasses with side-shields

#### **Body protection**

Avoid contact with skin.

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### 9. Physical and chemical properties

### 9.1 Appearance

Form:

liquid

Colour:

light yellow -amber

Odour: slightly soapy

# 9.2 Important health, safety and environmental information

pH Value (at 20 °C) 6,0-7,8

**Test method** 

### Changes in the physical state

Boiling point:

100 °C

Sublimation point:

no data available °C

Softening point:

no data available °C

Stock point

0 - -2 °C

Flash point:

no data available °C

DIN 51758

**DIN 12793** 

Flammability

Vapour pressure: (at 20 °C)

no data available hPa

(at 100 °C) Density:

1,025-1,03 g/cm<sup>3</sup>

(at 20 °C)

Water solubility: completely miscible g/l

(at 20 °C)

(at 20 °C)



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(at 20 °C) Flow time:	no data available	
9.3 Other information		
Autoignition temperature		
10. Stability and reactivity		
Materials to avoid strong oxidising agents strong acids a	and strong bases	
Hazardous decomposition product No decomposition if stored and applie	ed as directed.	
11. <u>Toxicological informat</u>	<u>ion</u>	
Acute toxicity None known.		
Specific effects in experiment on a None known.	n animal	
Irritancy and corrosiveness The liquid splashed in the eyes may of	ause irritation and reversible damage.	
Sensitising effect Repeated or prolonged exposure may	v cause skin irritation and dermatitis, due to degreasing pro	operties of the product.
Subacute, subchronic and prolong Repeated or prolonged contact with the contact dermatitis and absorption thro	ne preparation may cause removal of natural fat from the s	kin resulting in non-allergic
Carcinogenity, mutagenicity and re None known.	productive toxicity	
Additional information on tests No persistent or cumulative effects we	ere observed.	
Empirical data on effects on human Ingestion may cause irritation to muco	ns ous membranes. May cause eye or skin irritation with susce	eptible persons.

# 12. Ecological information

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### Persistence and degradability

Chemical oxygen demand (COD) 20.000mg O2/ltr (3% sln.) Biochemical oxygen demand within 5 days (BOD5) = 17.000mg O2/ltr (3% sln.)

### **Bioaccumulative potential**

Does not bioaccumulate. Ecological injuries are not known or expected under normal use.



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#### Other adverse effects

slightly water contaminating

#### Additional information

Waste water from subsequent processing should be given appropriate treatment in line with regulations of local sewerage undertaking or the NRA.

### 13. Advice on disposal

#### **Dispose**

If recycling is not practicable, dispose of in compliance with the Environmental Protection (Duty of Care) Regulations 1991. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

The following Waste Codes are only suggestions: 07 06 99

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## 14. Transport information

#### 14.1 Land transport (ADR/RID)

Warnings plate:

#### Description of the goods:

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

#### 14.2 Inland waterways transport

### Description of the goods

Not dangerous goods

### 14.3 Marine transport

#### Description of the goods

Not dangerous goods

#### 14.4 Air transport

### Description of the goods

Not dangerous goods

### 14.5 Further Information

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### 15. Regulatory information

#### 15.1 Labelling

### Indication of danger

Xi - Irritant

### Labelling according to EC-guidelines

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

#### R phrases

41

Risk of serious damage to eyes.



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S phrases

26-39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

### Additional information

Classification according to European directive on classification of hazardous preparations 1999/45/EC. Safety datasheet available on request for professionasl users.

### 15.2 National regulations

Water contaminating class:

1 - slightly water contaminating

### 16. Other information

### List of relevant R phrases

36

Irritating to eyes.

41

Risk of serious damage to eyes.

#### Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

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