

FLAMRO Brandschutz-Systeme GmbH

Fire Protection Foam FLAMRO BSS - 2-component-cartridges, component B with preservative

Revision date: 22.09.2015 Revision No: 1,2

Product code: 00150-0002K



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

Fire Protection Foam FLAMRO BSS - 2-component-cartridges, component B with preservative

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

#### Use of the substance/mixture

Polyol - Component

#### 1.3. Details of the supplier of the safety data sheet

FLAMRO Brandschutz-Systeme GmbH

Street: Am Sportplatz 2 Place: D-56291 Leiningen Telephone: +49 (0) 6746 9410-0 Telefax: +49 (0) 6746 9410-10 info@flamro.de e-mail:

Responsible Department:

Responsible for the safety data sheet: sds@gbk-ingelheim.de

INTERNATIONAL: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim) 1.4. Emergency telephone

In England and Wales: 111, In Scotland: 111 number:

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

### 2.1. Classification of the substance or mixture according to 1272/2008/EC

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation. Causes skin irritation.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

Signal word: Warning

Pictograms:



#### **Hazard statements**

H319 Causes serious eye irritation.

H315 Causes skin irritation.

Harmful to aquatic life with long lasting effects. H412

### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment. P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

### Additional advice on labelling

The product is classified in accordance with Regulation (EC) No 1272/2008.

### 2.3. Other hazards

No data available

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures



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### Chemical characterization

Polyol - Component with film preservation

#### **Hazardous components**

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification according to Regulati	'		
1244733-77-4	Reaction mass of propylene oxide and phosphorus oxychloride			1 - < 5 %
	911-815-4		01-2119486772-26	
	Acute Tox. 4; H302	•		
68187-76-8	Castor oil, sulfated, sodium salt			1 - < 5 %
	269-123-7		01-2119943732-36	
	Eye Irrit. 2A; H319			
3030-47-5	bis(2-dimethylaminoethyl)(methyl)amine			1 - < 5 %
	221-201-1		01-2119979537-18	
	Acute Tox. 3, Acute Tox. 3, Acute Total H331 H302 H314 H318 H412	quatic Chronic 3; H311		
	A mixture of: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n=5 or 6			< 1 %
	401-680-5	604-057-00-8		
	Aquatic Chronic 2; H411			

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

### **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours.

Refer for medical treatment.

#### After contact with skin

Take away immediately by mechanical means.

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

# After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids.

Summon a doctor immediately.

### After ingestion

Do not induce vomiting.

Summon a doctor immediately.

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

Possibility of strong irritations in the case of contact with eye-, skin or mucous membranes because of the high ph-value.

# $\underline{\textbf{4.3. Indication of any immediate medical attention and special treatment needed}}$

Treat symptoms.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Foam, carbon dioxide (CO2), dry chemical, water-spray.

### Unsuitable extinguishing media

Full water jet.



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### 5.2. Special hazards arising from the substance or mixture

No data available.

### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety.

Avoid contact with the skin and the eyes.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

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

Take up mechanically and collect in suitable container for disposal.

#### 6.4. Reference to other sections

Information for disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Advice on safe handling

Keep container tightly closed.

When using do not eat, drink or smoke.

Use only in thoroughly ventilated areas.

"ZH 1/34 ""Data Sheet: Polyurethane manufacture / Isocyanate (M 044)""",

"UVV ""Processing of Adhesives"" (VBG 81)"

### 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed.

Use only in well-ventilated areas.

### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

No data available.

### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

### 8.2. Exposure controls





### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

### Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

### Eye/face protection

Eye wash bottle with pure water (EN 15154).

Tightly fitting goggles (EN 166).

### Hand protection

Chemical-resistant gloves (EN 374). Safety gloves for the site (EN420, Cat. 1 or 2).

Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.



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Skin protection

Light protective clothing

Long sleeved clothing (EN 368).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

**SECTION 9: Physical and chemical properties** 

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour: Odour:

Dark grey

Amine like

pH-Value (at 20 °C):

10

Changes in the physical state

Density (at 20 °C):

1,4 g/cm<sup>3</sup>

30000 mPa·s

DIN 51751

Water solubility: (at 20 °C)

Soluble

Viscosity / dynamic:

(at 20 °C) 9.2. Other information

No data available.

**SECTION 10: Stability and reactivity** 

10.1. Reactivity

No data available.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

**SECTION 11: Toxicological information** 

11.1. Information on toxicological effects Toxicocinetics, metabolism and distribution

No toxicological data available.

Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name								
	Exposure routes	Method	Dose	Species	Source				
1244733-77- 4	Reaction mass of propylene oxide and phosphorus oxychloride								
	oral	LD50 mg/kg	500 - 2000	Rat (male)					
	dermal	LD50	> 2000 mg/kg	Rat (male)	OECD 402 / EU B.3				
	inhalative (4 h) aerosol	LC50	> 7 mg/l	Rat	OECD 403 / 433				
3030-47-5	bis(2-dimethylaminoethyl)(methyl)amine								
	oral	LD50	1330 mg/kg	Rat					
	dermal	LD50	280 mg/kg	Rabbit					
	inhalative vapour	ATE	3 mg/l						
	inhalative aerosol	ATE	0,5 mg/l						

# Irritation and corrosivity

Causes serious eye irritation.

Causes skin irritation.

### Sensitising effects

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

# Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name								
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source			
1244733-77-	Reaction mass of propylene oxide and phosphorus oxychloride								
4									
	Acute fish toxicity	LC50	51 mg/l	96 h	Pimephales promelas				
	Acute crustacea toxicity	EC50	131 mg/l	48 h	Daphnia magna	OECD 202			

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

Low hazard to waters.

# **SECTION 13: Disposal considerations**



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### 13.1. Waste treatment methods

### Advice on disposal

Do not discharge into the drains/surface waters/ground water. The waste code number must be agreed with the disposer / manufacturer / competent authority. Waste disposal according to local regulations.

### Waste disposal number of waste from residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS

(PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and

sealants other than those mentioned in 08 04 09

#### Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

#### **SECTION 14: Transport information**

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN):

### 14.1. UN number:

Not applicable. No hazardous material as defined by the transport regulations.

#### 14.2. UN proper shipping name:

Not applicable. No hazardous material as defined by the transport regulations.

#### 14.3. Transport hazard class(es):

Not applicable. No hazardous material as defined by the transport regulations.

# 14.4. Packing group:

Not applicable. No hazardous material as defined by the transport regulations. 14.5. Environmental hazards

### Not applicable. No hazardous material as defined by the transport regulations.

14.6. Special precautions for user
Not applicable. No hazardous material as defined by the transport regulations.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable. No hazardous material as defined by the transport regulations.

### **SECTION 15: Regulatory information**

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

### EU regulatory information

#### Additional information

The product is classified in accordance with Regulation (EC) No 1272/2008.

#### National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk



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GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H311 Toxic 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.

H331 Toxic if inhaled.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

#### **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)