



# DYAYAN PROTECTION

DRY CHEMICAL FIRE EXTINGUISHING POWDERS AND FOAM COMPOUNDS

attached (1) / 1



ISO 9001:2015

## Material Safety Data Sheet

According to 1907/2006/EG annex II (REACH-regulation)

DimiLex AFFF 3 %

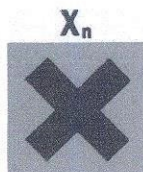
Latest Revision: 31/03/2017

page 01 of 04

### 1. Identification of substance:

Product details: DimiLex AFFF 3 %  
Application of the substance: Fire Extinguishing Foam Concentrate  
Identification of the company  
 Manufacturer: DYAYAN PROTECTION Ltd  
 Legal address: Dolno sahrane, region Pavel Banya, Bulgaria  
 Correspondence address: 8, Gen. Dragomirov bul, 6100 Kazanlak, Bulgaria  
 Tel/fax: 00359 4316 33 44, 431 6 24 58  
 Website: [www.dyayan-protection.com](http://www.dyayan-protection.com)

### 2. Identification of the hazards for people and environment



Marking of risk: X<sub>n</sub> (health hazardous)

Information pertaining to particular dangers for man and environment: Health hazardous in case of inhalation, swallowing or touch. Irritates respiratory organs

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 3. Composition and information on the Ingredients

Chemical characterization (single substance):

Chemical characterization (preparation):

Description: Mixture of the substances listed below with harmless additions.

Marking in conformity to the regulations of EC:

Substance	CAS No	Health class
1/ Butylglycol	CAS 111-76-2	Xn, R 20, 21, 22
2/ Sulfuric acid, mono-C12-14(even numbered)-alkyl esters, ammonium salts	CAS 68081-96-9	Xn, R 22
3/ Propylene glycol	CAS 57-55-6	-
4/ Water		

No dangerous composition in a higher w/w percentage than these defined in clause 6 of the article 5 of the EEC directive dd January 11, 1993.

### 4. First aid measures



# DYAYAN PROTECTION

DRY CHEMICAL FIRE EXTINGUISHING POWDERS AND FOAM COMPOUNDS



ISO 9001:2015

<u>General information:</u>	The sprayed clothing must be removed immediately.
<u>After breathing:</u>	Expose people to fresh air, contact a doctor.
<u>After skin contact:</u>	Thoroughly rinse the skin with water.
<u>After eye contact:</u>	Thoroughly rinse the eyes with water for at least 15 minutes. Medical examination is perfunctory.
<u>After swallowing:</u>	No vomiting should be caused (danger of suffocation in case of eventual foaming), contact a doctor.
<u>Doctor information:</u>	No determinate counter-measure. Apply symptomatic treatment. Relaxation and medical examination are perfunctory.

## Material Safety Data Sheet

According to 1907/2006/EG annex II (REACH-regulation)

DimiLex AFFF 3 %

Latest Revision: 31/03/2017

page 02 of 04

### 5. Fire fighting measures

No specific measures are required as the product is a fire fighting agent.

If product containers are involved in fire, then a suitable extinguishing agent should be used. Evacuate all personnel, use protective clothing and breathing apparatus if required. Stop release of product to fire. Keep away from heat, use water to cool containers. Move containers from fire area if possible without risk. Fight fire from safe distance. Poisonous decomposition product may be created during a fire.

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Protective equipment: No special measures required.

### 6. Accidental release measures

Keep away from children. Avoid eye and skin contact, and clothing as well. Supply fresh air in enclosed spaces. See heading 8 of this MSDS.

Environmental safety measures: Seal off the spill area with absorbing materials to avoid spreading of release to water or water treatment systems

Method for cleaning up : The outflowed product should not be left to drain into the soil or washed into the waters. It must be blocked by means of water-absorbing material (sand, peat, soil, saw-dust).

### 7. Handling and storage

#### Safety use indications

While working with the foam concentrate, the following safety regulations should be observed. Storage should conform to the Law of Environmental Protection.

#### Storage:

In closed premises, in closed original containers, at temperatures not over +40 °C.

Freezing and thawing do not affect the substance properties. But take care to avoid freezing as the expansion of the foam concentrate may cause cracking of the package as ice forms.

#### Requirements to storage containers:

In original tanks / packages or vessels of alloyed steel/plastic.

Indications for co-storage: Keep separately from food and tobacco products. The product should not be mixed with protein or other foam concentrates.

Must comply to the national regulations for products classified as water hazard class 1.



# DYAYAN PROTECTION

DRY CHEMICAL FIRE EXTINGUISHING POWDERS AND FOAM COMPOUNDS

attached (1) / 3



ISO 9001:2015

### 8. Exposure control/Personal protection

Use only in well ventilated areas.

Restriction handling

Pure Ethylene glycol:

Occupational exposure Limit (OES)

- Long term exposure limit ( 8 hours average): 60 mgm<sup>-3</sup>

- Short term exposure limit (10 minutes): 125 mgm<sup>-3</sup>

#### Personal protective equipment

General safety and hygiene measures: Keep separate from food processing and feed products. Wash your hands at the end of workday. Well ventilate closed premises.

Avoid prolonged, intensive or repeated inhalation or contact with eyes and skin.

Hand protection: Wear waterproof gloves - PVC and rubber type approved

Eye protection: Wear safety goggles of an approved type

Eye protection: Wear safety goggles of an approved type

Environmental exposure control: Store or dispose concentrate in accordance with national regulations

## Material Safety Data Sheet

According to 1907/2006/EG annex II (REACH-regulation)

DimiLex AFFF 3 %

Latest Revision: 31/03/2017

page 03 of 04

### 9. Physical and chemical characteristics

Controlled in conformity with:

Form:	Homogenous liquid	
Color:	Xauthic	
Odour:	Specific	
Solubility:	Miscible with water in all properties	
Freezing temperature:	-15°C	BDS EN 1568
Boiling point:	over 100 °C	
Flash point:	≥ 98 °C	BDS EN 1568
Density at 20 °C:	1,04 g/ml	BDS ISO 649-2
Viscosity at 20 °C:	6 mm <sup>2</sup> /s (cst)	
PH value at 20 °C:	6,5 ÷ 8,0	BDS ISO 4316
Oxidising properties	None	
Flammability:	Not flammable	
Explosive properties:	Product has no explosive properties	

### 10. Stability and reactivity

Material to avoid: Keep away from heat sources. Avoid strong oxidisers. Avoid materials which have violent reaction with water.

Conditions to avoid: Stable under normal conditions

Hazardous decomposition product Do not expose containers/packages to heat or flame, if they are made of plastic, as they will burn. Thermal decomposition of containers/packages may generate acrid smoke and fumes, carbon monoxide, carbon dioxide (oxygen depleting), traces of nitrogen oxide and Sox.

### 11. Toxicological information

#### Acute toxicity:

Cognitive letter and hazard designation of product: Contains Butyl Glycol, Sulfuric acid, mono-C12-14 (evennumbered) -alkyl esters, ammonium salts.

R 20, 21, 22

#### Acute effects:

Harmful by inhalation



**DYAYAN PROTECTION**

DRY CHEMICAL FIRE EXTINGUISHING POWDERS AND FOAM COMPOUNDS

attached (1)/4



ISO 9001:2015

Harmful to health if swallowed  
Harmful to health in contact with skin  
Irritates the respiratory organs  
Avoid contact with eyes  
Avoid contact with skin

#### 12. Ecological information

Ecotoxicity: Biodegradable.

Persistence and degradability: Biodegradable

Bioaccumulation:

Accumulation is unlikely. Possible after use to gather and transmit disposal.

Recommendation: the fire extinguishing foam can be deposited at biological filtering stations, with the consent of a competent authority.

Uncleaned packing:

Recommendation: the packing must be entirely emptied; possible second use.

## Material Safety Data Sheet

According to 1907/2006/EG annex II (REACH-regulation)

DimiLex AFFF 3 %

Latest Revision: 31/03/2017

page 04 of 04

#### 13. Disposal Considerations

Waste should be disposed via local authority waste collection service or registered waste carrier ensuring that the destination is a licensed facility. All packaging shall be emptied and removed according to regulations, or be re circulated without removal of labeling. Do not dispose with house hold garbage.

European Waste Code : 16 Wastes not otherwise specified in the list

1603 Off-specification batches and unused products

160306 Organic wastes other than those mentioned in 160305

#### 14. Transport information

**Not classified as Dangerous or hazardous for transport under:**

ADR (Transport by road)

RID (Transport by rail)

ADNR (Transport by inland waterways)

IMDG (Maritime Transport)

ICAO (Transport by air)

Not restricted for any mode of international transport

#### 15. Regulatory information

Safety, health and environmental regulations/legislation

EU-Regulations: No REACH Annex XVII restrictions. Contains no substance on the REACH candidate list

Chemical safety assessment

No chemical safety assessment has been carried out

Safety assessment of chemicals - This product contains substances that do not require a chemical safety assessment



# DYAYAN PROTECTION

DRY CHEMICAL FIRE EXTINGUISHING POWDERS AND FOAM COMPOUNDS



ISO 9001:2015

## 16. Additional indications

The above information is based on our current knowledge and experience and is intended to describe the product for the purpose of health, safety and environmental requirements. Data does not matter a guarantee of product properties and do not create a contractual relationship. The product should not be used for purposes other than fire fighting.

DYAYAN PROTECTION Ltd can't be held liable in case of poor or inappropriate use of the product. The user is responsible for ensuring that requirements of relevant legislation are complied with

### Certification:

EN 1568-3:2008

ICAO