

Material Safety Data sheet

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

Latest Revision: 01/11/2008

MSDS No :

Fomtec FFFP 3% & FFFP 6%

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation : FFFP 3% & FFFP 6%

Use of the substance/preparation : Fire Extinguishing Foam Concentrate

Company/Undertaking identification : Dafo Fomtec AB, P.O. Box 683, SE – 135 26 Tyreso, Sweden
Tel: +46 8 506 405 66
Fax: +46 8 506 405 29

Emergency telephone :

2. HAZARD IDENTIFICATION

- Irritating to eyes

3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Name of Ingredient	CAS-No	EINECS-No	Cons.Weight% FFFP 3% & 6%	Health class
1	Hydrolised protein	100085-61-8		Balance to 100%	
2	Hexylene glycol	107-41-5	203-489-0	5-12	Xi, R36/38
3	Fluorosurfactants	-	-	<5	Xi R,36/38
4	Sodium chloride	7647-14-5	231-598-3	10-15	
5	Magnesium sulphate	10034-99-8	231-298-2	0.5-2	
6	Bactericide	55965-84-9	247-500-7	<0.5	Xi R34/43/50/52

4. FIRST AID MEASURES

- Eye contact : Rinse thoroughly with running water at least for ten minutes. Seek medical advice if symptoms persists.
- Skin contact : Remove contaminated clothing etc and wash skin thoroughly with water. Seek medical advice if irritation persists.
- Ingestion : Rinse mouth with water. Give lots of water to drink. Do not induce vomiting. Seek medical advice if you are unwell.
- Inhalation : Remove the casualty into fresh air. Seek medical advice if symptoms Persists.

5. FIRE FIGHTING MEASURES

- No specific measures are required as the product itself 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 use breathing apparatus if required.
- Stop release of product to fire, Keep away from heat, use water to cool tanks. Move tanks from fire area if possible with out risk. Fire to be fought from safe distance. Poisonous decomposition products may be created during a fire.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid eye and skin contact. Supply fresh air in enclosed spaces. See heading 8 of this MSDS.
- Environmental precautions : Seal off the spill area with absorbing materials to avoid spreading of release to water or water treatment systems.
- Method for cleaning up : Shovel up the absorbed material and place in a labeled, sealed container for subsequent disposal.. The practice of washing in to drains should be avoided.

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7. HANDLING AND STORAGE

- Handling : The product should be diluted before use. Avoid skin and eye contact. Use personal protective equipment according to section 8. Avoid spill around the containers, the material may be slippery.
- Storage : Product should be stored in sealed, original containers. Freezing and thawing do not effect the properties but care must be taken to avoid freezing of the container and its contents since the expansion of the container contents may cause cracking of the completely rigid container as ice forms. Do not store above +50C for longer periods.
Must comply to the national regulations for products classified as water hazard class 1.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure limit values:

Haexylene glycol (4-methyl-2,4-pentane diol) CAS No: 107-41-5

WEL-STEL / EC-STEL 125 mg/cu.m.

Long term exposure limit (8 hour time weighted average) : 25ppm

Short term exposure limit (10 minutes) : 25ppm

Exposure Controls: : Work under local ventilation

Hand protection : Suitable gloves made from nitrile or butyl rubber

Eye protection : Use safety goggles

Skin protection : Use protective clothings such as overalls

Respiratory protection : Gas mask with filter type A may be used if concentration in air > exposure limit

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Type of material:	Liquid
Colour:	Dark brown
Odour:	Organic odour
Solubility:	Miscible with water in all proportions
Freeze point:	-17 C
Specific gravity at 20 C	1.15 – 1.20
pH	6.0 – 8.0
Viscosity Brookfield	<20 c.st
Boiling point	100 C at 760mm Hg
Flash point:	>98 C
Flammability	Not flammable
Oxidising properties	None
Explosive properties	Product has no explosive property

10. STABILITY AND REACTIVITY

- Material to avoid : Keep away from heat sources. Avoid strong oxidisers.
- Conditions to avoid : Stable under normal conditions
- Hazardous decomposition products : Thermal decomposition of containers and/or products may generate acrid smoke, fumes, carbon monoxide, carbon dioxide (oxygen depleting), traces of nitrogen oxide and Sox.

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Classification according to European directive 67/548/EEC and 1999/45/EC

Label For Supply : Not required

Risk Phrases: R36 / R38 Irritating to eyes and skin
R43 May cause sensitization by skin contact

REFERENCES

Health and Safety at work Act 1974

Chemicals (Hazard Information & Packaging for supply) Regulations 1994 / Amendment 1996

EC Directives: Substance Directive 67/548/EEC as amended by 69/81/EEC, 75/409/EEC, 79/831/EEC General
Preparations Directive 88/379/EEC. 1999/45/EC, 2001/58/EC

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Transport of Dangerous Goods: ADR,RID,IMDG and IATA

Guidance Notes: Occupational Exposure Limits EH40/96

Note: EH40 is revised on an annual basis and latest issue should therefore be applied

16. OTHER INFORMATION

RELEASED: 01/11/2008

INFORMATION SOURCES

Datasheet from the suppliers

Work protection agency information pamphlet about protective equipment

Work protection agency information pamphlet about gloves

“What you Need to know when you use protective breathing equipment” (Information, order number.: 539, Work protection agency)

Sax,N.I. and R.J. Lewis,Sr: Dangerous Properties of Industrial Materials, Seventh Edition, Volumes 1 to 3 (1991).

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements. The product should not be used for purposes other than fire fighting. The user is responsible for ensuring that requirements of relevant legislation are complied with.