

Material Safety Data Sheet

FILMFOAM 911K, FILFOAM 913K, FILMFOAM 916K

1/ Chemical product and company identification

Trade name: FILMFOAM 911K, FILMFOAM 913K, FILMFOAM 916K
Product Application: Fire fighting foam base
Manufacturer /Supplier: Kerr Fire Fighting Chemicals Ashcroft Road Knowsley Ind.
Park Kirkby Liverpool L33 7TS ENGLAND
Tel : (44) 151 548 6424 Fax : (44) 151 548 7263
Uniser SAS Z.I. " La Gaieté " 69550 Amplepuis FRANCE Tel : (33) 04 74 89
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2/ Composition and ingredient information

An aqueous concentrated solution of fluorocarbon - hydrocarbon surfactants and foam stabilisers / preservatives (Glycols).

Component name	CAS no	%composition	Symbol	Phrase
Water	7732-18-5	10 - 80		
Butyl Diglycol	112-34-5	10 - 40	Xi	R36
Fluoro-alkyl surfactants		1 - 10	Xi	R36/38
Hydrocarbon surfactants		2 - 20	Xi	R36/38
Ethylene Glycol	107-21-1	0 - 20	Xn	R22

3/ Hazard identification

Risk of serious damage to eyes (Filmfoam 911K). Ingestion may cause nausea, vomiting and diarrhoea.

4/ First aid measures

Inhalation: Move to fresh air
Skin contact: Wash off with plenty of water
Eye contact: Irrigate with fresh water for at least ten minutes holding eyelids apart
Ingestion: Rinse mouth with water and give plenty of water to drink. Do not induce vomiting.
If symptoms persist seek medical advice and treat symptomatically.

5/ Fire fighting measures

No specific measures required as this product is a fire extinguishing medium. If product containers are involved in fire then suitable extinguishing media should be applied.

6/ Accidental release measures

Washing of any spillages into drains should be avoided. Absorb spillage with absorbent granules and transfer to containers for safe disposal.

7/ Handling and storage

Product should be diluted with water before use. (911K at 1% 913K at 3% 916K at 6%).

Handling: Avoid repeated inhalation or contact with eyes and skin of the foam concentrate.
Storage: Product should be stored in sealed original containers above the freezing point and below 40°C.

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8/ Exposure controls and personal protection

Occupational exposure standards: Pure ethylene glycol.
United Kingdom OES: Long term exposure limit (8 hour TWA) : 60mgm-3
Short term exposure limit (10 minute) : 125mgm-3

Personal Protection: Use of gloves, goggles and protective clothing is recommended.

9/ Physical and chemical properties

Appearance: Clear Light Amber liquid
Odour: Organic
pH at 20°C: 6.5 - 8.0
Specific Gravity: 1.01 – 1.06
Solubility: Miscible with water in all proportions
Flammability: Non-flammable
Flash Point: > 98°C
Boiling Point: 100°C at 760mmHg
Freeze Point: 911K: -18°C, 913K : -2°C , 916K: 0°C

10/ Stability and reactivity

If stored at ambient temperature away from direct sunlight, shelf life is normally over ten (10) years.

11/ Toxicological properties

Ingestion: May cause vomiting, nausea and diarrhoea
Skin contact: May irritate skin
Inhalation: Prolonged extensive or repeated inhalation can be harmful
Eye contact: May irritate eyes
Aquatotoxicity of concentrate:
Rainbow Trout (*oncorhynchus mykiss*)

	913K	916K
LC50 (96 Hours)	390 ppm	1300 ppm
Daphnia Magna		
EC50 (24 Hours)	681 ppm	
EC50 (48 Hours)	147 ppm	

12/ Ecological information

As product is intended as a fire fighting foam it will create copious quantities of foam if washed into watercourses, although it is biodegradable. In the event of large spillage, advise appropriate authorities. (In UK, Environment Agency or SEPA and local water company).

Biodegradation	911K	913K	916K
5 days	44%	34%	
21 days		90%	
28 days		90%	

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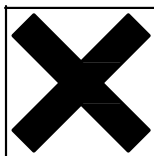
13/ Disposal considerations

Dispose of surplus product or contaminated packaging according to local and national legislation. Do not dispose with water reactive materials.

14/ Transport information

Not classified as hazardous for transport.

15/ Regulatory information



Label for supply: irritant

Classified under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 as irritant.

Filmfoam 911K : R41 Risk of serious damage to eyes

Refer to Health and Safety at Work Act and the Control of Substances Hazardous to Work Regulations. This material safety data sheet does not constitute the user's own assessment of workplace risk as required by the above regulations. The Manual Handling Operations Regulations may be applicable to certain pack sizes of this product. **16/ Other information**

The information in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on safety health and environmental aspects of the product and should not be construed as any guarantee of performance. The product should not be used for purposes other than fire-fighting without first referring to the supplier. The user is responsible for ensuring that requirements of relevant legislation are complied with.

Further information may be obtained from the following Health and Safety Executive publications:

EH40 Occupational Exposure Limits (updated annually)

END OF MSDS