



Material Safety Data Sheet

Kanex- AFFF Foam Type
Fire Extinguisher

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : AFFF Foam Fire Extinguishers (Concentration 3% or 6 %)
Model Nos. : KFMS-6, KFMS-9, KFMC-6, KFMC-9
Manufacturer/Supplier : M/s. Kanadia Fyr Fyter Pvt. Ltd.
Address : A-110, Kanara Business Center, Laxminagar,
B/H. Everest Garden Apartment. Ghatkopar (E) Mumbai-75
Phone Number : 022- 67250729

2. COMPOSITION/INFORMATION ON THE COMPONENTS

INGREDIENT	CONCENTRATION%	CAS NO.	HEALTH CLASS
Butyl Carbitol	10-- 25	112-34-5	Xi R 36
Metal Salt	≤ 5	7487-88-9	
Proprietary Mixture of Hydrocarbon & Fluoro	10--30	N/A	Xi R 36,37,38
Carbon Surfactants			
Water	QS	7732-18-5	

3. HAZARD IDENTIFICATION

Human health hazards : Not classified under CHIP III
Ingestion : May cause nausea, vomiting & diarrhea

4. FIRST AID MEASURES

Remove patient from hazard area, keep patient calm & warm. Provide fresh air. Refer this Material Safety Data Sheet while giving medical treatment.

Skin : Remove contaminated clothing. Wash immediately with plenty of clean water. If irritation persists, call for medical treatment.

Eye : Wash immediately with clean flowing water for at least 10 minutes, contact doctor if irritation/pain persists.

Ingestion : May cause nausea. Do not induce vomiting. Send immediately for medical attention

Inhalation : If patient is conscious, it is anticipated to be a minor problem. If there is breathing difficulty or cough, keep patient at rest, seated in maximum comfortable position. Call for medical attention if symptoms do not go away quickly or patient is unconscious.



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5. FIRE FIGHTING MEASURES

Fire fighting measures are not applicable as KVLITE AFFF is a fire extinguishing medium. If product containers are involved in fire, then a suitable extinguishing agent should be applied. Evacuate all persons from area involved in fire, use PPE.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing. Do not breathe mist, aerosols.

Personal Protections: Wear protective clothing specified for normal operations.

Environmental precautions

Spillage The practice of washing spills into drains should be avoided if at all possible and should under no circumstances be allowed without first consulting the local Water Authority and Environment Agency.

Spillage Small spills can be absorbed with sand or contained with earth or spill control material. Shovel up spillage and place in labeled, sealable container for subsequent safe disposal as per local laws.

7. HANDLING AND STORAGE

Handling : No special handling techniques required

Storage : Recommended storage environment is 0° to 49° C-store the product in original shipping container or tanks designed for product storage, away from direct Sunlight and heat. Do not put into contact with material which reacts violently with water. The product should be stored in sealed, original containers above 0° C and below 40° C for the best results. Protect from frost.

Personal Protective: KVLITE Fire Fighting Foam concentrates will be used by professional fire fighters to

Equipment- Fire Fighting Control and extinguish flammable liquid fires. This process may involve exposure to Heat, flame and possibly toxic vapors and fumes. It is normal procedure to wear appropriately designed personal protective equipments suitable for firefighting Operations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limit: Not determined

Ventilation & engineering control measures: Use only in well ventilated areas, avoid prolong, extensive or repeated inhalation or contact with eye and skin.

Personal Protective & Handling equipment: Body covering clothing recommended

Hand protection: Wear impervious gloves of approved type (eg Neoprene)



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Eye protection: Wear safety goggles of an approved type
Respiratory protection: Not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Clear amber colored liquid
pH at 20° C	6.5 - 8.5
Boiling Point	100° C at 760 mm Hg
Odor	Organic
Flash Point	> 98° C
Flammability	Non flammable
Solubility	Miscible with water in all proportions
Viscosity at 20° C	< 10 cSt
Specific gravity	1.0 - 1.05
Special fire fighting procedures	None. This is an extinguishing agent
Unusual fire and explosion hazards	None

10. STABILITY AND REACTIVITY

Stability	Generally stable. As with all aqueous solutions, prevent from contact with any material which have violent reaction with water
Hazardous decomposition products	Do not expose containers to heat or flame since the containers are made from high density polyethylene and will burn. Thermal decomposition of containers and/or product may generate acid smoke, fumes and traces of Na ₂ O, Cl ⁻ , SO _x , NO _x & HF.

11. TOXICOLOGICAL INFORMATION/HEALTH EFFECT

Inhalation	Inhalation of hazardous amount is unlikely, when used as Intended. May cause irritation to respiratory tract when inhaled.
Ingestion	Low oral risk when used as indented. May cause nausea, Vomiting and diarrhea if ingested.
Contact to eye or skin	Low risk if appropriate precautionary measures are taken (See section 6). May cause skin and eye irritation when comes in contact with them.
Aqua toxicity	Guppy fish, No toxic effect till concentration of 1500 ppm for 96 hrs.

12. ECOLOGICAL INFORMATION

Persistence/degradability:	Biodegradable
Bioaccumulation:	Bioaccumulation is unlikely to occur due to metabolism and excretion
	Biodegradable 3 % 6 %



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Biodegradation:

COD	0.36 gg ⁻¹	Data not generated
BOD(5days)	0.19 gg ⁻¹	Data not generated

Sewage treatment:

Data not available

13. DISPOSAL

Disposal	Waste should be disposed via local authority, waste collection service or registered Waste carrier. Ensure that the destination is a licensed facility. Container should be disposed off as per local rules.	
Local legislation	India	Europe
	AIR (Prevention & Control of pollution) Act 1981	Control of Pollution Act 1974
	The Water (Prevention & control of Pollution) 1974	Special Wastage Regulation 1996
	The Hazardous Waste (Mgt & Handling) 1989 Rules	Environmental Protection Act 1990
Handling for disposal	Avoid contact with skin & eyes. Do not inhale excessively. Do not ingest. Wash thoroughly with clean water in case of contact.	
Method of disposal	Do not discharge into drain or water source. Contact concerned local authorities	

14. TRANSPORT INFORMATION

Not classified as Dangerous or Hazardous for transport under UN, IMO, ADR/RID and IATA/ICAO

15. REGULATORY INFORMATION

Label for supply	None required
UK regulatory references	Health and Safety at work Act 1974, Chemical (Hazard Information & Packaging for Supply) Regulation 1994, and Amendment Regulations 1996.
EC Directives	Substances Directive 67/548/EEC as amended by 69/81/EEC, 70/189/EEC, 73/146/EEC, 75/409/EEC, 79/831/EEC, General Preparations Directive 88379/EEC
Statutory Instruments	Chemical (Hazard Information & Packaging for Supply) Regulation 1994 /Amendment Regulations 1996.
Approved Code of Practice Guidance Notes	Classification and Labeling of Substances and Preparations Dangerous for Supply Occupational Exposure Limits EH40/96
Transportation of Dangerous Goods(TDG) information	Non required as per ADR/RID/IMGD,IATA & 49 CFR

16. OTHER INFORMATION

Use & restriction	For Fire extinguishment Data sheet of ingredients & packaging manufacturers,
Information Source	Literature from PPE manufacturers Central Pollution Control Board Guidelines - India