

MATERIAL SAFETY DATA SHEET

MECHANICAL FOAM FIRE EXTINGUISHERS (STORED PRESSURE/CARTRIDGE OPERATED/MOBILE)

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name:	Mechanical Foam (Stored Pressure/Cartridge Operated/Mobile) Fire Extinguishers Portable: 2, 3, 6 & 9 ltr. Capacity. Mobile: 20, 45 & 60 ltr.
Other Names:	Foam, AFFF, AR AFFF Foam type Fire Extinguishers
Recommended Use:	Fire extinguisher for liquid and solid fires
Supplier Name:	Kanadia Fyr Fyter Pvt. Ltd.
Address:	Plot No. 7/8, Paras Industrial Estate, Nr. Garibsha Pir Town: Sihor City: Bhavnagar PIN-364240
Emergency No.:	02846 231763

2. HAZARDS IDENTIFICATION

Hazard Classification:	Not classified under CHIP III When transported in a stored pressure or cartridge type fire extinguisher, the fire extinguisher is considered a class 2.2 hazard. The proper shipping name shall be FIRE EXTINGUISHER and the number is UN 1044
Hazards Identification:	EU Main Hazards: Non Hazardous chemical Ingestion: May cause nausea, Vomiting & diarrhea

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	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 & Fluorocarbon Surfactants	10--30	N/A	Xi R 36,37,38
Water	QS	7732-18-5	

4. FIRST AID MEASURES

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.
Eye Contact:	Immediately flush eyes with plenty of water for 15 minutes whilst holding lids open. If redness, itching or burning occurs get medical attention.
Skin Contact:	Wash material off skin with copious amounts of water and soap for at least 15 minutes. If redness, itching or burning occurs get medical attention.
Ingestion:	May cause nausea. Do not induce vomiting. Send immediately for medical attention

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.
Hazards from Combustion Products:	This product may decompose in fire and release acid smoke, fumes and traces of Na ₂ O, Cl, SO _x , NO _x & HF. (Refer to Section 10).
PPE for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	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. 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.
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7. HANDLING AND STORAGE

General:	Protect the cylinder from damage. Handle in well-ventilated areas.
Safe Storage:	Store the extinguishers where the temperature beyond the marked operating ranges. Use the appropriate personal protective equipment when handling. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection:	Ensure adequate ventilation. Protect eyes, face and skin.
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)
Eye protection:	Wear safety goggles of an approved type
Respiratory protection:	Not required

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state	Clear amber colored liquid
pH at 20° C	6.5 - 8.5
Boiling Point	100° C at 760 mm Hg
Odour	Organic
Flash Point	> 98° C
Flammability	Non flammable
Sloubility	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

Chemical Stability:	Generally stable. As with all aqueous solutions, prevent from contact with any material which have violent reaction with water
Hazardous Reactions	None
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

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 May cause skin and eye irritation when comes in contact with them.
Aqua toxicity	Guppi 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		
Biodegradation:	Biodegradable	3 %	6 %
	COD	0.36 gg-1	Data not generated
	BOD(5days)	0.19 gg-1	Data not generated
Sewage treatment:	Data not available		

13. DISPOSAL CONSIDERATIONS

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) Rules 1989	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

UN No.:	1044
Class and Subsidiary Risk:	D.G. Class 2.2
Special Precautions for User:	None
UN Proper Shipping Name:	FIRE EXTINGUISHER

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 /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

General:	This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product featured and shall not establish a legally valid contractual relationship.
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