

SECTION 1- CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identification	KV-LITE CLASS K - S			
Application & Use	Fire Extinguishing Foam Co	oncentrate		
Manufacturer Address		M/S KV FIRE CHEMICALS (INDIA) PVT. LTD,		
	KAMALA NIWAS, PLOT -32, NAVI MUMBAI-400 703, IND		SHI,	
		AX; +91-22-2782 4712		
		VEBSITE: www.kvfire.com		
	Emergency Contact (M) +91- CIN NO: U29193MH1995PTC			
Product Description	Aqueous solution of metal s	alt of poly basic organic aci	d	
SECTION 2 - COMPOSITION				
INGREDIENT	CONCENTRATION %	CAS No	HEALTH CLASS	
Potassium Acetate	20 - 60	127-08-2		
Potassium Citrate	2 - 12	6100-05-6		
Acticide	0 - 0.5%			
Water	30 - 70%	7732-18-5		
SECTION 3 – HAZARD IDENTIFICA	ATION			
Human health hazards	Not classified under CHIP I	Not classified under CHIP III		
Ingestion	May cause nausea, vomitin	May cause nausea, vomiting & diarrhea		
SECTION 4 – FIRST AID MEASURE	ES			
		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 cloth persists, call for medical treater		n plenty of clean water. If irritation	
Eye	Wash immediately with clea irritation/pain persists.	In flowing water for at least	10 minutes, contact doctor if	
Ingestion	May cause nausea. Do not	induce vomiting. Send imm	ediately for medical attention	
Inhalation:	cough, keep patient at rest,	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.		
SECTION 5-FIRE FIGHTING MEAS	URES			
		ers are involved in fire, then	CLASS K is a fire extinguishing a suitable extinguishing agent should fire, use PPE.	
SECTION 6- ACCIDENTAL RELEAS	SE MEASURES			
Personal Precautions:	Avoid contact with skin, eye	es and clothing. Do not brea	the mist, aerosols.	
Personal Protections: Environmental precautions	Wear protective clothing sp	ecified for normal operation	S.	
Spillage			bided if at all possible and should ting the local Water Authority and	
Spillage	Small spills can be absorbe Shovel up spillage and plac per local laws.		th earth or spill control material. Iner for subsequent safe disposal as	



SECTION 7-HANDLING AND STORAGE

Handling Storage	No special handling techniques required 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 Equipment- Fire Fighting	KV-LITE Fire Fighting Foam concentrates will be used by professional fire fighters to control and extinguish flammable liquid fires. This process may involve exposure to heat, flame and possibly toxic vapours and fumes. It is normal procedure to wear appropriately designed personal protective equipments suitable for fire fighting operations.

SECTION 8 - EXPOSURE CONTROL & 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)
Eye protection:	Wear safety goggles of an approved type
Respiratory protection:	Not required

SECTION 9- PHYSICAL & CHEMICAL PROPERTIES

Physical state	Blue Liquid
pH at 20º C	7.5 - 9.5
Boiling Point	100º C at 760 mm Hg
Odour	Organic
Flash Point (PMCC)	No flash to Boiling
Flammability	Non flammable
Solubility	Miscible with water in all proportions
Viscosity at 20º C	< 30 cSt
Specific gravity	1.2 - 1.5
Special fire fighting procedures	None. This is an extinguishing agent
Unusual fire and explosion hazards	None
SECTION 10- REACTIVITY & STABILI	ТҮ
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 ⁻ ,SOx, NOx & HF.
SECTION 11-TOXICOLOGICAL INFOR	MATION/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	Guppi fish, No toxic effect till concentration of 1500 ppm for 96 hrs



SECTION 12 - ECOLOGICAL INFORMATION

Persistence/degradability:	Biodegradable		
Bioaccumulation:	Bioaccumulation is unlikely to occur due to metabolism and excretion		
Biodegradation:	Biodegradable		
	COD Not determined		
	BOD Not determined		
Sewage treatment:	Data not available		
SECTION 13- DISPOSAL CONSIL	ERATION		
Disposal	Waste should be disposed via local authority, waste collection service or registered waste carrier. Ensure that the destination is a licenced 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		

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

SECTION 15- REGULATORY INF	ORMATION
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.

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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	Classification and Labelling of Substances and Preparations Dangerous for Supply
Guidance Notes	Occupational Exposure Limits EH40/96
Transportation of Dangerous Goods (TDG) information	Non required as per ADR/RID/IMGD,IATA & 49 CFR

SECTION 16-OTHER INFORMATION

Use & restriction	For Fire extinguis	shment
Issue Date	May 2015	
First Revision Date	Feb 2017	Second Revision Date: January 2018
Information Source	Data sheet of ingredients & packaging manufacturers, Literature from PPE manufacturers Central Pollution Control Board Guidelines - India	

DISCLAIMER

This information is based on our knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product. User is required to ensure suitability of the product for the intended use, compliance to regulations, for its safe use and disposal. **KV FIRE CHEMICALS (INDIA) PVT. LTD** will not be held responsible or liable for any injury or accident of any kind.