

MATERIAL SAFETY DATA SHEET KV-LITE AFFF FOAM CONCENTRATE, 3 & 6 % - UL LISTED

SECTION 1- CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identification KV-LITE AFFF FOAM CONCENTRATE, 3 & 6 %- UL LISTED

Application & Use Fire Extinguishing Foam concentrate

Manufacturer Address M/S K.V. FIRE CHEMICALS (INDIA) PVT. LTD,

KAMALA NIWAS, PLOT -32, LANE -D, SECTOR -8, VASHI.

NAVI MUMBAI-400 703, INDIA

Ph; +91-22-27820827, FAX; +91-22-2782 4712 E mail: <u>info@kvfire.com</u> WEBSITE: www.kvfire.com

Emergency Contact (M)-+91-92241 08676

Product Description Mixture of Hydrocarbon surfactants, fluoro surfactants & solvents

SECTION 2 COMPOSITION

INGREDIENT	CONCENTRATION %	CAS No	HEALTH CLASS
Butyl Carbitol	10 25	112-34-5	Xi R 36
Metal Salt	≤ 5	7487-88-9	
Proprietory Mixture of Hydrocarbon & Fluoro Carbon Surfactants	1030	N/A	Xi R 36, 37, 38
Water	QS	7732-18-5	

SECTION 3 – HAZARD IDENTIFICATION

Human health hazards Not classified under CHIP III

Ingestion May cause nausea, vomiting & diarrhea

SECTION 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.

SECTION 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.

SECTION 6- ACCIDENTAL RELEASE MEASURES

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

Peronal 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 labelled, sealable container for subsequent safe

disposal as per local laws.



MATERIAL SAFETY DATA SHEET KV-LITE AFFF FOAM CONCENTRATE, 3 & 6 % - UL LISTED

SECTION 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 Equipment-

Fire Fighting

KVLITE 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 Clear amber coloured 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

SECTION 10- REACTIVITY & STABILITY

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 Na₂O, Cl⁻,SOx, NOx & HF.

SECTION 11-TOXICOLOGICAL INFORMAION/HEALTH EFECT

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, vomitting 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.

Agua toxicity Guppi fish, No toxic effect till concentration of 1500 ppm for 96 hrs



MATERIAL SAFETY DATA SHEET KV-LITE AFFF FOAM CONCENTRATE, 3 & 6 % - UL LISTED

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

SECTION 13- DISPOSAL CONSIDERATION

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

dipsosed 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 Environmental Protection Act 1990

Rules

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

SECTION 14-TRANSPORT INFORMATION

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

SECTION 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 Substaces Directive 67/548/EEC as amended by 69/81/EEC, 70/189/EEC, 73/146/EEC,

75/409/EEC, 79/831/EEC, General Prepartions 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 extinguishment
Revision Date Dec 2009. Rev-01

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 lnowledge 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.

K V FIRE CHEMICALS (INDIA) PVT. LTD will not be held resposnible or liable for any injury or accident of any kind.