



**MATERIAL SAFETY DATA SHEET**  
**KV-LITE AFFF 3% - C6**  
**AQUEOUS FILM FORMING FOAM**

**SECTION 1- CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**Product Identification** KV-LITE AFFF 3% - C6  
**Application & Use** Fire Extinguishing Foam Concentrate  
**Manufacturer Address** M/S KV 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: [info@kvfire.com](mailto:info@kvfire.com) WEBSITE: [www.kvfire.com](http://www.kvfire.com)  
Emergency Contact (M) +91-9822052119  
CIN NO: U29193MH1995PTC093237  
**Product Description** Mixture of Hydrocarbon Surfactants, Fluorinated Surfactants & Solvents

**SECTION 2 - COMPOSITION**

| INGREDIENT   | CONCENTRATION % | CAS No    | HEALTH CLASS    |
|--|-----------------|-----------|-----------------|
| Butyl Di Glycol  | 5-20            | 112-34-5  | Xi R 36         |
| Metal salt   | ≤ 5             | 7487-88-9 |                 |
| Proprietary Mixture of Hydrocarbon & Fluorinated Surfactants | 5- 20           | ...       | 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**

Skin Remove patient from hazard area, keep patient calm & warm. Provide fresh air. Refer this Material Safety Data Sheet while giving 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 KV-LITE 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**

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 labelled, sealable container for subsequent safe disposal as per local laws.



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**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 | 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                     | Clear to Amber coloured liquid              |
| pH at 20° C                        | 6.5 - 9.0                                   |
| Boiling Point                      | 100° 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 20° C                 | < 10 cSt                                    |
| Specific gravity                   | 1.0 - 1.05                                  |
| Special fire fighting procedures   | <b>None. This is an extinguishing agent</b> |
| 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 Na <sub>2</sub> O, Cl <sup>-</sup> , SO <sub>x</sub> , NO <sub>x</sub> & HF. |

**SECTION 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 intended. 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   |



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**SECTION 12 - ECOLOGICAL INFORMATION**

|                            |  |
|----------------------------|--|
| Persistence/degradability: | Biodegradable  |
| Bioaccumulation:           | Bioaccumulation is unlikely to occur due to metabolism and excretion |
| Biodegradation:            | Biodegradable  |
|                            | COD                            7911.36                               |
|                            | BOD                            17250                                 |
| 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 disposed off as per local rules.  |      |                              |  |               |  |   |      |                          |  |   |      |                            |  |  |      |                              |  |  |  |      |
| Local legislation     | <table border="0"> <tr> <td></td> <td style="text-align: center;"><b>India</b></td> <td></td> <td style="text-align: center;"><b>Europe</b></td> </tr> <tr> <td></td> <td>AIR (Prevention &amp; Control of pollution) Act</td> <td>1981</td> <td>Control of Pollution Act</td> </tr> <tr> <td></td> <td>The Water (Prevention &amp; control of Pollution)</td> <td>1974</td> <td>Special Wastage Regulation</td> </tr> <tr> <td></td> <td>The Hazardous Waste (Mgt &amp; Handling) Rules</td> <td>1989</td> <td>Environmental Protection Act</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1990</td> </tr> </table> |      | <b>India</b>                 |  | <b>Europe</b> |  | AIR (Prevention & Control of pollution) Act | 1981 | Control of Pollution Act |  | The Water (Prevention & control of Pollution) | 1974 | Special Wastage Regulation |  | The Hazardous Waste (Mgt & Handling) Rules | 1989 | Environmental Protection Act |  |  |  | 1990 |
|                       | <b>India</b>  |      | <b>Europe</b>                |  |               |  |   |      |                          |  |   |      |                            |  |  |      |                              |  |  |  |      |
|                       | AIR (Prevention & Control of pollution) Act   | 1981 | Control of Pollution Act     |  |               |  |   |      |                          |  |   |      |                            |  |  |      |                              |  |  |  |      |
|                       | The Water (Prevention & control of Pollution)   | 1974 | Special Wastage Regulation   |  |               |  |   |      |                          |  |   |      |                            |  |  |      |                              |  |  |  |      |
|                       | 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  |      |                              |  |               |  |   |      |                          |  |   |      |                            |  |  |      |                              |  |  |  |      |

**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<br>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                           | 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   |
| Issue Date         | May 2015                            Revision Date: January 2018   |
| Information Source | Data sheet of ingredients & packaging manufacturers,<br>Literature from PPE manufacturers<br>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.