

# FACE OFF

## KV - LITE NEWS

### TRIUMPH OVER FIRE

Magazine From the house of K. V. Fire Chemicals (India) Pvt. Ltd.

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#### *In My Own Words...*

It gives me great pleasure to introduce the first Newsletter from KVFC.

Health, Safety and Environment is of paramount concern and it now assumes greater importance, particularly as India on the move with growth in all sectors including manufacturing.

Our quarterly newsletter will focus on new developments in fire chemicals and information on safety awareness.

K. V. Fire Chemicals was founded on the belief that we have something to offer and today that belief stands firmer than ever.

We believe it is not for the great products. We also offer our exemplary service through sheer professionalism.

What sets us apart and has helped us grow and flourish are our wide range of fire chemicals, superior quality of products and above all, a sense of teamwork of all our dedicated and loyal employees.

Yes, we have expanded internationally and in new market segments but we wish to look beyond that.

K. V. Fire Chemicals will continue to grow as a company that values people above all else and moreover an organization that all of you can be proud of to be associated with.

We also invite you to share your joy with the others across the country by sending the articles. In conclusion, I wish all the readers and your family

"HAPPY DIWALI"

Mr. H. M. Sabadra  
(Managing Director)

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#### Challenges in case of serious accidents caused by flammable liquid vapours.

Still it is in the vivid memory of all Indians - the incident which took place at midnight on 3<sup>rd</sup> December 1984 in Bhopal during which 2000 people died instantly and 3,00,000 people were injured/suffered. the cause was GAS VAPOUR LEAK.

Controlling vapours from hazardous material spills is essential for protecting human lives and environment



It is of paramount importance to industrial companies that manufacture or use such material.

Also it is a major concern of transporters of hazardous substances as well as those persons or the authority responsible for protecting the communities from the threat of spills of such product.

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## K. V. Fire Chemicals (India) Pvt. Ltd.

Kamala Niwas, 2nd Floor, Plot -32, Lane - D, Sector -8, Vashi, Navi Mumbai - 400 703.

Tel. (022) 2782 0827 / 2782 3901, Fax: +91(022) 27824712,

Email : kvfc@mtnl.net.in, Customer Care Help Line : 2782 6733, Website : www.kvfire.com





# New Developments

## Challenges in case of serious accidents caused by flammable liquid vapours.

Special foams have been developed for suppression of hazardous vapours emitting from spills of hazardous materials and these foams are called HAZMAT FOAMS. There are separate Hazmat foams for Alkaline spills, Acidic spills and the spills of Neutral material.

### HAZMAT FOAM FOR

- Control spill vapourisation
- Protect the on-sight emergency crew
- Buy time for evacuation
- Initiation clean-up Technique



**Why normal fire fighting foams are not effective for vapour suppression ?**

Combines with the surfactants

Changes pH,

Removes water from the foam by reaction by dissolution.

### CHARACTERISTICS OF HAZMAT FOAM

- Produces a stable blanket
- Resists the product pick up
- Have slow drainage rate

### Hazmat limitation

- On highly water reactive chemicals
- For fire fighting
- On running spills

### Application equipment

- Portable, Mobile & Fixed Systems

### Types

#### Hazmat No. 1 for use on spills of alkaline materials.

- Anhydrous Ammonia
- Methyl Amines
- Ethyl Amines
- Ethylene Diamine
- Hydrazine
- Other Alkyl Amines
- Ammonia Solution
- DMA-Dimethyl Amine
- Sodium Hypochlorite
- Triethylamine
- TMA-Trimethyl Amine

#### Hazmat No. 2 for use on spills of acidic materials.

- Chlorine
- Anhydrous Hydrogen Chloride
- Hydrochloric acid
- Methyl Chloracetate
- HCL Anhydrous
- HF (70%)
- Bromine
- Trichlorosilane
- Dimethylchlorosilane
- Sulphur Monochloride
- Titanium Tetrachloride
- Nitric acid

#### Hazmat No. 3 for use on spills on Neutral materials

- Acetone
- Aldehydes
- Cyclohexane
- Esters
- Styrene
- Vinyl Acetate
- Ketones
- Methylene Chloride
- Monomers
- Propylene Oxide
- Ethylene Oxide
- Hydrocarbons



### Application Rates

Application rate for Hazmat Foam becomes a function of how rapidly the spill is to be blanketed or given a certain flow one can work out time required to blanket the area.

For any hazardous material classification or formula for application rates, [Please email kvfc@mtnl.net.in](mailto:kvfc@mtnl.net.in)

### SPECIALIZATION



UL LISTED AFFF



FP-AR 3x6, 3x3.



HAZMAT FOAM

## KV-LITE FOAM CONCENTRATES

- PROTEIN
- HIGH EXPANSION
- FILM FORMING
- FLUORO PROTEIN
- FLUOROPROTEIN
- AQUEOUS FILM FORMING
- ALCOHOL RESISTANT



# Safety Awareness

## ENVIRONMENTAL CONCERN DRY CHEMICAL POWDER CLEAN UP

Dry Chemical is a proven firefighting agent. Its fast flame knockdown characteristics can be attributed to its chemicals makeup and small particle size. These same attributes help dry chemical find its way in and around nearly everything in the vicinity of discharge. This tends to raise two questions:

- How does dry chemical agent affect the materials in the surrounding area?
- What are the recommendations for cleaning up and /or neutralizing those areas exposed to the dry Chemical agent?



### THE EFFECTS OF DRY CHEMICAL EXTINGUISHING AGENT:

Corrosion is not evident on any sample in contact with dry chemical under dry conditions. If dry chemical is left on surfaces which are exposed to moisture, discoloration and dulling of aluminum parts and paint finishes can be expected. Dry chemical should be cleaned up promptly. Dry chemicals may be corrosive to surfaces, which are sensitive to mildly acidic or mildly alkaline materials.

### DRY CHEMICAL CLEAN UP RECOMMENDATIONS:

The complexity of the equipment and its susceptibility to corrosive material will dictate the degree of cleanup necessary.

When dry chemical cleanup is required, it should be accomplished immediately by following these recommended steps:

Sweep or vacuum the settled residual dry chemical. If vacuuming, use a filter such as a HEPA filter. If necessary, wipe with a damp soft cloth.

To break down the silicone in the dry chemical, spray the area with a solution of 50% isopropyl alcohol and 50% warm water.

To neutralize sodium bicarbonate and potassium bicarbonate based dry chemicals, spray or wash the area with a solution of 98% hot water and 2% vinegar.

To neutralize mono ammonium phosphate based dry chemical, spray or wash the area with a solution of hot water and baking soda.

If any electrical contacts have been affected by a dry chemical discharge, use an approved electrical contact cleaner.

### DRY CHEMICAL DISPOSAL RECOMMENDATION:



All the rules and regulation applicable as per the state/federal Govt. the regulations have to be followed for disposal.

The water pollution Act of 1974 & Air pollution Act of 1981, and Hazardous wastes Rules of 1989, with all amendments to be followed wherever necessary.

One of the methods of destroying the effect of powder is stated above alternatively dig a pit inside the land far away from the resident surrounding, dump the said powder add the above chemicals as mentioned and close the pit back with mud, to decompose itself.

**For additional details on safe disposal of powders.**

**Please email [kvfc@mtnl.net.in](mailto:kvfc@mtnl.net.in).**

### SPECIALIZATION



**KV-OLFEX**



**TEC POWDER**



**TEAL POWDER**

## KV-LITE DRY CHEMICAL POWDERS

- SBC STANDARD
- SBC SUPER
- PBC STANDARD

- ABC 50
- ABC 70
- ABC 90



# LITE MOVEMENT

## FUN CORNER

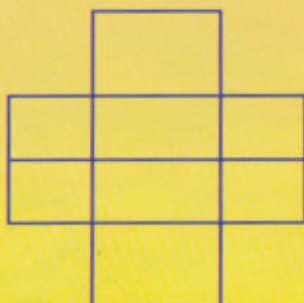
### Trivia

Jan. 1 Kansas City, KS: An explosion at a hazardous waste treatment plant injured three firefighters and released nearly 8,000 gallons of inks, solvents and oils. An employee fled shortly before the blast when he heard noises coming from inside a storage tank.

### JOKE

A thief stops a Gentle man on the street, sticks a gun to his back & says "Give me all your money!" the man replies "You cant do that, I am an Income Tax officer!" the thief says "oh! In that case give me all my money".

### Rack Your brains



*In these boxes, fill numbers from 1 to 8, without having the successive and previous numbers in the corresponding boxes, horizontally, vertically or diagonally.*

*The answers to the puzzle will be given in the next issue.*

### LET US SHARE YOUR JOY

**Win a hoilday package for  
a couple at Poovar Island resort  
Kerala back waters**

All are invited to send in articles, developments, anecdotes, jokes, messages, poems, photographs or anything that might make an interesting reading or worth sharing with others across the country. It could be also success it could be an escape stories of any of your family members or any other event that you feel is worth letting the world know The best entry will win a holiday package to kerala The Prize winner will be announced in a next quartely issue

**All entry e-mail to [kvfc@mtnl.net.in](mailto:kvfc@mtnl.net.in)**

\*Conditions apply