

1. PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME	:	HMS Type Fire Extinguisher
PRODUCT USE	:	Special Fire Extinguishing Agent
MANUFACTURER'S NAME	:	United Fire Equipments (P) Ltd.
ADDRESS	:	B-38, Mangolpuri Industrial Area Phase II New Delhi-110034, India
PHONE NUMBER	:	+91-11-47504406
WEBSITE	:	http://www.lifeguardindia.in/
TELEPHONE NO.	:	+91-9811172254

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CONCENTRATION	CAS#
Mica (Vermiculite)	7-18%	1318-00-9
Water	78-90%	7732-18-5
Proprietary Ingredients	<2%	N/A

3. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION, EYES, SKIN, INGESTION

Emergency Overview: Non-hazardous Substance.

Potential Health Effects: Minor

Eyes: Contact with eyes may cause irritation.

Skin: Avoid contact with the skin, may cause skin irritation when dried.

Inhalation: Inhalation may cause respiratory irritation when dried.

Ingestion: Not likely to be the route of Entry

Chemical Listed as Carcinogen or Potential Carcinogen: N/A

4. F I R S T A I D M E A S U R E S

NO SERIOUS ADVERSE EFFECTS ARE ANTICIPATED. IF SEEKING MEDICAL ADVICE-SHOW THIS MSDS TO THE MEDICAL PROFESSIONAL.

EYE CONTACT: Immediately flush eyes with plenty of water until pain free. Remove contact lenses, if present and easy to do. Continue rinsing till at least 15-20 minutes with eyes wide open. Get medical attention if irritation persists after washing.

SKIN CONTACT: Wash off with warm water and soap. Get medical attention if irritation develops and persists.

INHALATION: Not anticipated. Water based product, treat accordingly. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if irritation persists.

INGESTION: For Overdose symptoms, give victim 2-3 glasses of water or milk to drink. Do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. A mild neutralising agent may be of benefit as HMS has a pH 7-10.

GENERAL ADVICE: If you feel unwell, seek medical advice. Treat symptomatically, no special antidote required.

5. F I R E F I G H T I N G M E A S U R E S

EXTINGUISHING MEDIA

Suitable extinguishing media: This product in itself is not flammable and can even itself be used on Potential Fire. Use suitable extinguishing agent for type of surrounding fire.

Protection of fire-fighters Specific hazards arising from the chemical: Not required.

Protective equipment for fire-fighters: Gloves & Goggles may preferably be used.

Explosion data Sensitivity to mechanical impact: Non explosive.

Sensitivity to static discharge: N/A.

Hazardous combustion products: Non combustible

6. A C C I D E N T A L R E L E A S E M E A S U R E S

Personal precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Spilled material may be a slip hazard. Avoid contact with skin, eyes, and clothing.

Environmental precautions Prevent large quantities from entering drains, sewers or watercourses. Should be dried off.

Methods for containment: Prevent further leakage or spillage if safe to do so. Use sorbent socks for containment & transfer to suitable labelled container.

Methods for cleaning up: Clean up released material using sorbent materials. Bag and drum for disposal; properly label containers; dispose as required by local, state, and national regulations. Decontaminate with detergent and water.

Other information: Clean up in accordance with all applicable regulations. **DO NOT REUSE the extinguishing agent.**

7. H A N D L I N G A N D S T O R A G E

Personal Precautions: Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).

Handling: Keep product in original container or extinguisher in a cool area. Use in well ventilated area. Prevent falling. Do not allow near heat sources. Contents may be under pressure – inspect extinguisher consistent with product labelling to ensure container integrity.

Storage: Guard against dust accumulation of this material. Use care in handling/storage. Store in original packing.

Store in dry & ventilated place, the product is very stable till 70°C.

Do not freeze as the HMS may need stirring after freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Eye / face protection: Wear safety glasses with side shields (or goggles).

Skin protection: Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Respiratory protection: In the case of irrespirable dust and/or fumes, use self-contained breathing apparatus.

Hygiene Measures: Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

9. P H Y S I C A L A N D C H E M I C A L P R O P E R T I E S

Appearance

Form: Suspended Liquid.

Color: Golden and Dark Brown.

Odour: Earthy smell.

Physical state: Liquid.

pH: Slightly Alkaline in Solution 7-10

Melting point: Dried material >1300°C.

Freezing point: N/A.

Boiling point: Approx. 100 deg C.

Flash point: Non flammable.

Evaporation rate: N/A.

Flammability limits in air, upper, % by volume: N/A.

Flammability limits in air, lower, % by volume: N/A.

Vapor pressure: N/A.

Vapor density: N/A.

Relative density: 1.08.

Solubility (water): HMS is miscible in water.

Partition coefficient (n-octanol/water): N/A

Auto-ignition temperature: N/A.

Decomposition temperature: N/A.

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical stability: Material is stable under normal conditions.

Incompatible materials: N/A.

Hazardous decomposition products: N/A.

Possibility of Hazardous Reactions: None

11. TOXICOLOGICAL INFORMATION

Toxicological information: Relatively Non-Toxic.

Chronic effects: Prolonged contact may be harmful & irritating if dried. Not expected to be hazardous.

Reproductive Toxicity: This product's ingredients are not known to have reproductive or teratogenic effects.

12. ECOLOGICAL INFORMATION

Eco toxicity: No

Environmental effects: Eco friendly.

Persistence/Degradability: N/A.

Bioaccumulation: Unlikely.

Mobility in soil: N/A.

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of contents/container in accordance with local/regional/national regulations.

Waste from residues / unused products: Dispose of in accordance with local regulations.

14. T R A N S P O R T I N F O R M A T I O N

Not regulated as dangerous goods.

15. R E G U L A T O R Y I N F O R M A T I O N

Indian regulations: This product is ISI marked & has been classified in accordance with the BIS standard IS 15683:2018, Performance of this extinguisher was found to be with par excellence.

BIS status: Controlled

BIS labelling: As per Standard

16. O T H E R I N F O R M A T I O N

Further information: ISI is a registered product quality mark of the BIS.

BIS Rating: REF- BIS code IS 15683:2018

Training advice:

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