MATERIAL SAFETY DATA SHEET
HD AR-SFFF-F3 3x3%
ALCOHOL RESISTANT-SYNTHETIC FLUORINE FREE FOAM

SECTION 1 – Indentification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Form	Mixture
Product Name	**HD AR-SFFF-F3 3x3%**
Type of Product	Fire Extinguishing Alcohol Resistant-Synthetic Fluorine Free Foam

1.2 Relevant identified uses of the substance of mixture and uses advised against

1.2.1 Relevant identified uses.

Industrial/Professional use specfication	Industrial, For professional use - fire extinguishing application only
Use of the substance/mixture	Firefighting Foam Concentrate

1.2.2 Uses advised against.

No additional information available

1.3 Details of the supplier of the safety data sheet

Company Name	Address	Contacts
HD Fire Protect Pvt. Ltd.	D-6/2, Road No. 34, Wagle Estate, Thane 400604, India	Phone: +91-22-21582600 Fax: +91-22-21582602 Email:info@hdfire.com Website: www.hdfire.com

1.4 Emergency telephone number

Emergency number	Mobile: +91-22-21582600

SECTION 2 – Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Acute toxicity 4 (oral), Skin corrosion 2, Eye Damage 1.
Full text of H statements: see section 16	
Adverse physiochemical, human health and environmental effects	No additional information available

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms (CLP)

GHS07

Signal work (CLP) : **Warning**

Hazard statements (CLP) : H302 - Harmful if Swallowed,
H315 - Causes skin irritation,
H319 - Causes serious eye irritation

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

: P280 - Wear eye protection, protective clothing, protective gloves

: P302+P352 - If on skin: Wash with plenty of water.

: P305+P351+P338 - If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

: P337+P313 - If eye irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaimated clothing and wash it before reuse.

2.3 Other hazards

PBT & vPvB: not relevant – no registration required.

SECTION 3 – Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification as per Regulation (EC) No. 1272/2008 [CLP]
Sulfuric acid, mono-octyl-decyl-alkyl esters, sodium salts	(CAS-No.) 85338-42-7	12-18	Acute toxicity 5 (oral), Skin corrosion 2, Eye Damage 1.
D-Glucopyranose, oligomers, decyl octyl glycosides	(CAS-No.) 68515-73-1 (EC-No.) 500-220-1	3-6	Eye Damage 1, H318
Cocamidopropylamine Oxide	(CAS-No.) 68155-09-9 (EC-No.) 268-938-5	3-6	Acute toxicity 4 (oral) H 302 Acute aquatic toxicity 2 H 401

Name	Product identifier	%	Classification as per Regulation (EC) No. 1272/2008 [CLP]
2-Butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0	2-8	Harmful by inhalation, in contact with skin & if swallowed. Irritating to eyes & skin.

Full text of H-statements: See section 16

SECTION 4 – First aid measures

4.1 Description of first aid measures

First-aid measures General: Remove patient from hazard area, keep patient calm & warm. Provide fresh air. Refer this Material Safety Data Sheet while giving medical treatment.

First-aid measures 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.

First-aid measures Skin contact: Remove contaminated clothing. Wash immediately with plenty of clean water. If irritation persists, call for medical treatment.

First-aid measures Eye contact: Wash immediately with clean flowing water for at least 10 minutes, contact doctor if irritation/pain persists.

First-aid measures Ingestion: May cause nausea. Do not induce vomiting. Send immediately for medical attention

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects: Causes damage to organs (kidneys) (if swallowed).

Symptoms/effects after eye contact: Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 – Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: No specific measures necessary. This product is a fire extinguishing agent.

Unsuitable extinguishing media: Not applicable

5.2. Special hazards arising from the substance or mixture

Fire hazard: No fire hazard.

5.3. Advice for firefighters

Firefighting instructions: Not applicable.

Protection during firefighting: Not applicable.

SECTION 6 – Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

Section:- 8. Exposure controls/personal protection. Section:-13. Disposal considerations.

SECTION 7 – Handling and storage

7.1 Precautions for safe handling

Precaution for safe handling: Avoid contact with skin and eyes. Wear recommended personal protective equipment. Read and follow manufacturer's recommendations. Handle in accordance with good industrial hygiene and safety procedures. Read and follow the Safety Data Sheet (SDS) before use.

Hygiene measures: Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store the product in original shipping container or tanks designed for product storage, away from direct Sunlight and heat. Protect from freezing. Store at temperatures not exceeding 60°C (140°F) (intermittent). Do not put into contact with material which reacts violently with water. Keep/Store away from incompatible materials.

7.3 Specific end use(s)

Firefighting foam concentrate.

SECTION 8 – Exposure controls/personal protection

8.1 Control parameters

Sulfuric acid, mono-octyl-decyl-alkyl esters, sodium salts (85338-42-7)	Occupational Exposure Limits: None.	
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	Worker: Long term exposure, dermal: 595000 mg/kg, Inhalation: 420 mg/m³ Consumer: Long term exposure, dermal:357000 mg/kg, Inhalation: 124 mg/m³, Oral: 35.7 mg/kg	
Cocamidopropylamine Oxide (68155-09-9)	Occupational Exposure Limits: None.	
2-Butoxyethanol (111-76-2)	ACGIH TWA (ppm)	20 ppm (BEI)
	EU IOELV (TWA) (mg/m³)	98 mg/m³
	EU IOELV (STEL) (mg/m³)	246 mg/m³

8.2 Exposure controls

Appropriate engineering controls	Ensure adequate ventilation. Follow the exposure limits given on this material safety data sheet.
Personal protective equipment	Body covering clothing recommended.
Eye protection	Wear sealed/tight fitting safety goggles of an approved type (eg: EN 166).
Hand protection	Wear impervious gloves of approved type (eg: Neoprene, Butyl Rubber, PVA, viton)
Skin and body protection:	Wear recommended personal protective equipment.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment (recommended filter type A2/P2).
Thermal hazard protection	Wear thermal protective clothing, when necessary.
Environmental exposure controls	Contain spills. Prevent releases. Observe national regulations on emissions. Ensure all national/local regulations are observed.
Other information	Do not eat, drink, or smoke when using this product.

SECTION 9 – Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/Physical state	Light Yellow Viscous liquid
Odour	Characteristic
Odour threshold	No data available
pH	8.0 ± 1.0
Melting point / freezing point	Does not apply / -2°C
Initial boiling point & boiling range	100º C at 760 mm Hg
Flash point	> 100°C
Relative evaporation rate	No data available
Flammability (solid, gas)	Does not apply
Upper/lower flammability/explosive limit	Does not apply
Vapour pressure	Does not apply
Vapour density	Does not apply
Relative density	Does not apply
Specific Gravity	1.02 ± 0.02
Solubility(ies)	Soluble in Water
Partition coefficient: n-octanol/water	Does not apply
Auto-ignition temperature	Does not apply
Decomposition temperature	Does not apply
Viscosity, kinematic	1400 ± 300 cPs
Explosive properties	Does not apply
Oxidising properties	Does not apply

9.2. Other information

No additional information available

SECTION 10 – Stability and reactivity

10.1. Reactivity

The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials. Extremely high or low temperatures. Direct Sunlight.

10.5. Incompatible materials

Alkali metals. Oxidizing agent. Water reactive substances.

10.6. Hazardous decomposition products

Carbon oxides. Sulphur oxides. Hydrogen fluoride. Nitrogen oxides (NOx). Sodium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Not classified

Sulfuric acid, mono-octyl-decyl-alkyl esters, sodium salts (85338-42-7)	
LD50 oral Male rat	>2000 mg/kg.
LD50 dermal Male rat	1200 mg/kg
Irritation/corrision	Skin:- Species: rabbit, Result: irritant.
	Eye:- Species: rabbit, Result: severe irritant.
Sensitization	Species: mouse, Route: Skin, Result: Non-sensitizing.
Mutagenicity	Experiment: In Vitro, Subject: Bacteria, Result: Negative, Method: OECD 471 Bacterial revserse mutation
	Experiment: In Vitro, Subject: Mamalian-Animal, Result: Negative, Method: OECD 473 Mammalian
	Experiment: In Vitro, Subject: Mamalian-Animal, Result: Negative, Method: OECD 476 Mammalian Cell
	Experiment: In Vivo, Subject: Mamalian-Animal, Result: Negative, Method: OECD 478 Genetic Toxicology,
Carcinogenicity	Subject: Male, Female Rat, Result: Negative - Oral TCLo, Dose: 1125 mg/kg., Exposure: 2 years (7 days
Teratogenicity	Subject: Rat, Result: Negative - Oral, Dose: 500 mg/kg., Exposure: 10 days (7 days per week)
Potential chronic health effects	Species: Male, Female Rat, Result: Sub-chronic NOAEL Oral, Dose: 488 mg/kg. Exposure 13 weeks (7
	Species: Male, Female Rat, Result: Sub-chronic NOAEL Dermal, Dose: 400 mg/kg. Exposure 13 weeks (2

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LD50 oral rat	> 5.000 mg/kg, OECD Guideline 401
LD50 dermal rabbit	> 2.000 mg/kg, OECD Guideline 401
Irritation/corrision	Skin:- Species: rabbit, Result: Slightly irritating, Method: OECD guideline 404
	Eye:- Species: rabbit, Result: irreversible damage, Method: OECD guideline 405
Sensitization	Species: guinea pig, Result: Non-sensitizing, Method: OECD guideline 406
Genetic Toxicity	Exp./calculated data: OECD guideline 471 Ames-test Salmonelia typhimurium: negative
Aspiration Hazard	No aspiration hazard expected

Cocamidopropylamine Oxide (68155-09-9)	
Acute oral toxicity (Rat)	LD50: ≥ 500 - ≤ 1000 mg/kg bw (active ingredient) (OECD Guideline 423)
Acute dermal toxicity (Rat)	LD50: > 2174 mg/kg bw (OECD Guideline 402 / EU Method B.3)
Acute inhalation toxicity	No data available
Irritation/corrision	Skin:- Species: rabbit, Result: irritant (OECD Guideline 404 / EU Method B.4)
	Eye:- Species: rabbit, Result: severe irritant (OECD Guideline 405)
Respiratory or skin sensitization (Guinea pig)	Species: Guinea pig, Route: Skin, Result: Non-sensitizing (OECD Guideline 406 / EU Method B.6)
Germ cell mutagenicity	In vitro mammalian chromosome aberration test: Negative (OECD Guideline 473 / EU Method B.10)
	Bacterial reverse mutation assay (in-vitro): Negative (OECD Guideline 471; EU Method B.13/14)
	Mammalian cell gene mutation assay (in-vitro): Negative (OECD Guideline 476 / EU Method B.17)
Carcinogenicity	No data available
STOT-single exposure & repeated exposure	Not Classified

2-Butoxyethanol (111-76-2)	
LD50 oral rat	1300 mg/kg
LD50 guinea pig	1400 mg/kg
LD50 dermal guinea pig	2000 mg/kg
LD50 guinea pig (vapours)	>3.1 mg/l/1h

Skin corrosion/irritation	Not classified (pH 8.0 ± 1.0)
Serious eye damage/irritation	Causes eye irritation (pH 8.0 ± 1.0)
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
HD- AR-SFFF-F3 3x3%Viscosity, kinematic	1400 ± 300 cPs

SECTION 12: Ecological information

12.1. Toxicity

Sulfuric acid, mono-octyl-decyl-alkyl esters, sodium salts (85338-42-7)	Parameter	Method	Value	Duration	Species
Acute Toxicity algae	EC10 fresh water		1.12 mg/l	72 h	Pseudokirchinella subcapitata
Acute Toxicity algae	EC50 fresh water		49.4 mg/l	72 h	Pseudokirchinella subcapitata
Chronic toxicity aquatic invertebrates	EC50 fresh water		>100 mg/l	48 h	Daphnia Magna
Micro-organisms	EC50 fresh water	OECD guideline 209	>135 mg/l	3 h	Micro-organism
Acute toxicity fishes	LC50 fresh water	Equivalent OECD 203	13 mg/l	48 h	Cyprinus carpio
Chronic toxicity invertebrates	EC50 fresh water	Equivalent OECD 202	1.4 mg/l	21 days	Daphnia Magna
Chronic NOEC Fish		Equivalent OECD 209	≥ 1.357 mg/l	42 days	Pimephales promelas

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	Parameter	Method	Value	Duration	Species
Acute toxicity fish	LC50	DIN EN ISO 7346-2	> 100 mg/l	96 h	Brachydanio rerio
Chronic toxicity fish	LC50	OECD guideline 204	>1-10 mg/l	96 h	Brachydanio rerio
Aquatic invertebrates	EC50	OECD guideline 202, part 1	> 100 mg/l	48 h	Daphnia Magna
Chronic toxicity aquatic invertebrates		OECD guideline 202, part 2	>1-10 mg/l		Daphnia Magna
Aquatic plants		Directive 88/302/EEC, part C, p.89	>10-100 mg/l		Scenedesmus subspicatus
Micro-organisms/Effect on activated sludge		OECD guideline 209	EC0>100 mg/l		Pseudomonas putida
Micro-organisms/Effect on activated sludge		DIN 38412 part 8	EC0>100 mg/l		Pseudomonas putida
Degradibility/persistence/Biological/Abiological degradation	Readily biodegradable (according to OECD criteria)				

Cocamidopropylamine Oxide (68155-09-9)	Parameter	Method	Value	Duration	Species
Short-term toxicity to fish	LC50 fresh water		1.8 mg/l	96 h	Oncorhynchus mykiss
Long-term toxicity to fish	-	similar to EPA OPPTS 850.1500	NOEC:0.495 mg/l NOEC:0.42 mg/l	15D302D	Pimephales promelas
Short-term toxicity to aquatic invertebrates	EC50 fresh water	OECD Guideline 202	55.5 mg/l	48 h	Daphnia Magna
Long-term toxicity to aquatic invertebrates	-	OECD Guideline 211	NOEC:0.7 mg/l LC50:0.96 mg/l	21D	Daphnia Magna
Toxicity to aquatic algae	-	OECD Guideline 201	EC50:1.97 mg/l NOEC:0.85 mg/l	72H	Pseudokirchnerella subcapitata

12.2. Persistence and degradability

HD AR-SFFF F3 3X3 FOAM	
Persistence and degradability	No data available.
Sulfuric acid, mono-octyl-decyl-alkyl esters, sodium salts (85338-42-7)	99% (15 days) OECD 301D method, Ready Biodegradability Closed Bottle Test.
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	Readily biodegradable (according to OECD criteria)

HD AR-SFFF F3 3X3 FOAM	
Biochemical oxygen demand (BOD)	Data not available.
Biochemical oxygen demand (BOD)	Data not available.
Chemical oxygen demand (COD)	Data not available.
Biodegradability (BOD)/(COD)	Data not available.

12.3. Bioaccumulative potential

HD AR-SFFF F3 3X3 FOAM	
Bioaccumulative potential	The product is not expected to bioaccumulate.
Sulfuric acid, mono-octyl-decyl-alkyl esters, sodium salts (85338-42-7)	Log pow -2.31 to 1.72, Potential: Low.
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	Significant accumulation in organisms is not to be expected

12.4. Mobility in soil

HD AR-SFFF F3 3X3 FOAM	
Mobility in soil	No data available.
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	Adsorption to solid soil phase is not expected

12.5. Results of PBT and vPvB assessment

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6. Other adverse effects

Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 – Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with relevant local/national regulations. Do not allow to enter into surface, water or drains. Do not re-use empty containers.
Ecology - waste materials	Avoid release to the environment.

SECTION 14 – Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

	ADR	IMDG	IATA	ADN	RID
14.1. UN number	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

No supplementary information available

14.6. Special precautions for user

Overland transport	Not applicable	Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Transport by sea	Not applicable	Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air transport	Not applicable	Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Inland waterway transport	Not applicable	Marine Pollutant: NO
Rail transport	Not applicable	HAZCHEM: NOT APPLICABLE

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15 – Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

15.1.2. National Regulations

AIR (Prevention & Control of pollution) Act, 1981.
Water (Prevention and Control of Pollution) Cess (Amendment) Act, 2003.
Hazardous and Other Wastes (Management& Transboundary Movement) Amendment Rules, 2019

15.2. Chemical safety assessment

No additional information available.

SECTION 16 – Other information

Revision Date	October 2022
Data Source	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

Acute Toxicity 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Toxicity 4 (Oral)	Acute toxicity (oral), Category 4
Acute Toxicity 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Toxicity 3 (Dermal)	Acute toxicity (Dermal), Category 3
Eye Damage 1	Serious eye damage/eye irritation, Category 1
Eye Irritation 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

STOT RE 2	Specific target organ toxicity Repeated exposure, Category 2
STOT SE 1	Toxic to humans from single exposure, Category 1
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled
H370	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long-lasting effects
H412	Harmful to aquatic life with long-lasting effects

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists.
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
EC = European Community / Effective Concentration.
EINECS = European Inventory of Existing Commercial chemical Substances
EUH statement = CLP-specific Hazard statement
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LC = Lethal Concentration
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PEL = Permissible Exposure Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL = Short Term Exposure Limit
STOT-SE = Specific Target Organ Toxicity - Single Exposure
SVHC = Substances of Very High Concern
TWA = Time weighted average
UN = United Nations
vPvB = Very Persistent and Very Bioaccumulative

DISCLAIMER:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore 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. HD FIRE PROTECTPVT. LTD will not be held responsible or liable for any injury or accident of any kind.