

SECTION 1- CHEMICAL PRODUCT IDE	NTIFICATION		
Product Identification	HD AFFF 6-C6,		
	HD Fire Protect Pvt. Lt	a., india	
Application & Use	Fire Extinguishing Foam C	Concentrate	
Product Description			
SECTION 2 - COMPOSITION			
INGREDIENT	<b>CONCENTRATION %</b>	CAS No	HEALTH CLASS
Butyl Di Glycol	5-15	112-34-5	Xi R 36
Metal salt	≤ 4	7487-88-9	
Proprietary Mixture of Hydrocarbon & Fluorinated Surfactants	4- 18		Xi R 36, 37, 38
Water	QS	7732-18-5	
SECTION 3 - HAZARD IDENTIFICATION	N		
Human health hazards	Not classified under CHIP	Not classified under CHIP III	
Ingestion	May cause nausea, vomiting & diarrhea		
SECTION 4 - FIRST AID MEASURES			
	Remove patient from haza this Material Safety Data S		n & warm. Provide fresh air. Refer 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. Does i needed.	not induce vomiting. Seek	medical attention immediately, if
Inhalation:	difficulty or cough, keep pa	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 MEASUR	ES		
	<b>U</b>	olved in fire, then a suitable	F is a fire extinguishing medium. If le extinguishing agent should be fire, use PPE.
SECTION 6 - ACCIDENTAL RELEASE I	MEASURES		
Personal Precautions:	Avoid contact with skin, ey	es and clothing. Do not br	eathe mist, aerosols.
Personal Protections: Environmental precautions	Wear protective clothing sp	pecified for normal opera	tions.
Spillage			e avoided if at all possible and should nsulting the local Water Authority and
Spillage	Small spills can be absorb material. Shovel up spilla safe disposal as per local	ge and place in labelled	with earth or spill control & sealable container for subsequent
			Dogo 1 of 2



### SECTION 7- HANDLING AND STORAGE

Handling Storage	No special handling techniques required 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	HD 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 equipment suitable for firefighting 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 20º C	6.5 - 9.0
Boiling Point	100º C at 760 mm Hg
Odour	Organic
Flash Point	> 98° C
Flammability	Non flammable
Solubility	Miscible with water in all proportions
Viscosity at 20º 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

Generally stable. As with all aqueous solutions, prevent from contact with any material which have violent reaction with water
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 Q, Cl <sup>-</sup> ,SOx, NOx & 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 indented. 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



SECTION 12 - ECOLOGICAL INFORMATION		
Persistence/degradability:	Biodegradable	
Bioaccumulation:	Bioaccumulation is unlikely to occur due to metabolism and excretion	
Biodegradation:	Biodegradable	
	COD Not determined	
	BOD Not determined	
Sewage treatment:	Data not available	
SECTION 13 - DISPOSAL CONSIDE	RATION	
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	IndiaEuropeAIR (Prevention & Control of pollution) Act1981Control of Pollution Act1974The Water (Prevention & control of Pollution) 1974Special Wastage Regulation 1996The Hazardous Waste (Mgt & Handling) Rules1989Environmental Protection Act1990	
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	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
Revision Date	May 2015
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 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. **HD FIRE PROTECT PVT. LTD** will not be held responsible or liable for any injury or accident.