



SAFETY DATA SHEET
PINNACLE AFFF 3% - C6
AQUEOUS FILM FORMING FOAM

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identification	PINNACLE AFFF 3% - C6
Application & Use	Fire Extinguishing Foam Concentrate
Manufacturer Address	HAZARD CONTROL TECHNOLOGIES, INC. 150 Walter Way Fayetteville, GA 30214 Phone: (770) 719-5112 Fax: (770) 719-5117 E mail: info@hct-world.com Website: http://www.hct-world.com Emergency Contact: (770) 719-5112
Product Description	Mixture of Hydrocarbon Surfactants, Fluorinated Surfactants & Solvents

SECTION 2 – HAZARD IDENTIFICATION

Human Health Hazards	Not classified under CHIP III
Ingestion	May cause nausea, vomiting & diarrhea

SECTION 3 – 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 4 – FIRST AID MEASURES

	Remove patient from hazard area, keep patient calm & warm. Provide fresh air. Refer to this Safety Data Sheet while giving medical 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. 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 PINNACLE 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.
Clean Up Method	Small spills can be absorbed with sand or contained with earth or spill control material. Shovel up spillage and place in labeled, 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 32° to 120°F. 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 32°F and below 120°F for the best results. Protect from frost.
Personal Protective Equipment- Fire Fighting	Pinnacle 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 vapors 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 (e.g. Neoprene).
Eye Protection	Wear safety goggles of an approved type.
Respiratory Protection	Not required.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State	Clear to Amber colored liquid.
pH at 68°F	6.5 - 9.0
Boiling Point	212°F at 1 atm
Odor	Organic
Flash Point	> 208°F
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	None. This is an extinguishing agent.
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 ₂ O, Cl ⁻ , SO _x , NO _x & 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 licensed facility. Container should be disposed of as per local rules.
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 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 Labeling 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 2017.
Information Source	Data sheet of ingredients & packaging manufacturers Literature from PPE manufacturers Central Pollution Control Board Guidelines

Hazard Rating Systems

This information is for people trained in the following

National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

Health Hazard	0	Instability	0
Flammability	0	Special Hazards	N/A

DISCLAIMER

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.