

ENDLESS SAFE

AFFF 6% 3% 1%

ENDLESSAFE AFFF is an aqueous film forming foam concentrate (AFFF) consisting of fluorocarbon and hydrocarbon surfactants blended with various solvents, preservatives and stabilizers. The foam forms an aqueous film that rapidly cuts off the oxygen supply and knocks down the fire. The expanded foam, from which the film is drained, forms a stable blanket that suppresses the release of flammable vapors and cools down the fuel surface extinguishing the fire and preventing resignation.

Technical Data

Product	AFFF 1%	AFFF 3%	AFFF 6%
Use Concentration	1%	3%	6%
Specific Gravity	1.03 ± 0.02	1.01 ± 0.02	1.01 ± 0.02
PH	7.5 ± 0.5	7.5 ± 0.5	7.5 ± 0.5
Viscosity	<10 cst	<10 cst	<10 cst

Areas of Application

ENDLESSAFE AFFF will provide quality protection for a wide range of hazardous areas such as:

- Fire Truck
- Domestic fire
- Industrial fire
- Mobile equipment
- Refinery
- Hydrocarbon storage tanks
- Airports
- Ports
- Process areas
- Solvent extraction
- Polymer manufacturing
- Etc.

Proportioning

ENDLESSAFE AFFF can easily be proportioned at the correct dilution using conventional equipment such as:

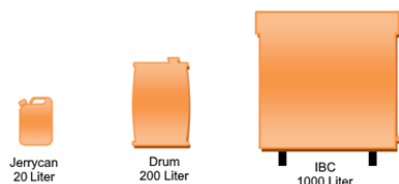
- Inline inductors
- Bladder tanks
- Around the pump proportioning systems
- Self-inducting branch pipes and nozzles
- Fire Extinguisher
- Etc.

Storage and Handling

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions. Since electrochemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates. We recommend following our guidelines for storage and handling ensuring favorable storage conditions.

Packaging

We supply this product in 20 liter (jerry can) cans, 200 liter (drum) and 1000 liter (IBC)



Manufacturer & Distribution

ENDLESSAFE AFFF is manufactured by PT. SENATAMA LABORANUSA as Chemical Service company and distributed by PT. ENDLESSAFE SINERGI SAFETINDO as fire protection and safety equipment supplier.

MATERIAL SAFETY DATA SHEET

ENDLESSAFE AFFF



1. Product and Company Identification

Product name	ENDLESSAFE AFFF	Contact Information
Function	Foam Fighting Agent	This product manufactured by PT. Senatama Laboranusa for PT ENDLESSAFE SINERGI SAFETINDO
CAS Number	Blend	Jl. KH Hasyim Ashari No.75, Nerogtog, Pinang, Tangerang City, Banten, Indonesia 15146

2. Hazard Identification

Ingestion: Burning sensation. Cough. Cramps. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard. Must not come into contact with food or be consumed.

3. Composition and Information on Ingredients

The component of this product comprise proprietary information.

CAS No.	Common Name	% By Weight
7732-18-5	Water	> 64
Proprietary Mixture	Glycol	< 10
Proprietary Mixture	Anorganic Salt	> 1
Proprietary Mixture	Hydrocarbon Surfactant & Fluoro Surfactant	< 25

4. First Aid Measures

Inhalation
 Assure fresh air breathing

Ingestion
 Seek medical attention immediately

Skin Contact
 Flush with plenty of water

Eye Contact
 Seek medical attention immediately

5. Fire and Explosion Data

The product is a fire-extinguisher. After use remove residual fire extinguishing agent from corrosion sensitive materials.

6. Accidental Release Measures

Personal precautions	:	Spill should be handled by trained cleaning personnel properly equipped With respiratory and caution.
Environmental precautions	:	Prevent entry to sewers and public waters.
Method for cleaning up	:	Collect spills into appropriated container.

7. Handling and Storage

Storage temperature: 5°C – 60°C, dry and free from vibrations. Keep away from natrium hypochlorite (bleach)

8. Exposure Controls/Personal Protection

Wear chemical glove and blinker to use it, wash hand after use.

9. Physical and Chemical Properties

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Use Concentration	1%	3%	6%
Specific Gravity	1.03 ± 0.02	1.01 ± 0.02	1.01 ± 0.02
PH	7.5 ± 0.5	7.5 ± 0.5	7.5 ± 0.5
Viscosity @ 20°C	<10 cst	<10 cst	<10 cst

10. Stability and Reactivity

Stable under normal conditions

11. Toxicological Information

Eye contact: The foam can cause discomfort or irritation.

12. Ecological Information

OECD 302B resp. EU C.9: The test substance can be considered as "inherently biodegradable".

13. Disposal Considerations

Dispose in a safe manner in accordance with local/national regulations.

General: Hazardous waste.

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14. Transport Information

Department of Transportation proper shipping name: not regulated

Hazard class: None

UN Number: None

15. Regulatory Information

Federal regulations

NA.

SARA Section 311/312 Hazard Classes

NA.

16. Other Information

References: Not available.

Other Special Considerations: Not available.

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