

MATERIAL SAFETY DATA SHEET

FOAM AFFF 3%

Section 1: Identification

Product Name:
AQUEOUS FILM FOAMING FOAM (AFFF) 3%
Chemical Name:
MONO AMMONIUM PHOSPHATE, AMMONIUM SULPHATE
Company:
A1FIRE PTE LTD



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In case of emergencies contact local health department.

Section 2: Hazard(s) Identification

Hazard Classification:
VOID
Signal Word(s):
VOID
Hazard Statements:
VOID
Hazard Pictograms:
VOID
Precautionary Statements:
VOID
Description of other hazards:
VOID

Section 3: Composition/ Information on Ingredients

Chemical Name	CAS#	Conc.
H2O	7732-18-5	62-79%
2-(2-Butoxyethoxy) Ethanol	112-34-5	8-12%
Ethylene Glycol	107-21-1	6-8%
Synthetic Detergents	N/A	6-11%
Fluoroalkyl Surfactant	Confidential	0.5-2.0%

Section 4: First-Aid Measures

General information:

Take affected persons out into fresh air. Do not leave affected persons unattended.

After skin contact:

Immediately wash with water and soap and rinse thoroughly

After eye contact:

Rinse opened eye for 15 minutes under running water. Consult a physician.

After inhalation:

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of airborne aerosol mists, supply fresh air or oxygen. Consult a physician if effects occur.

After swallowing:

Swallowing less than an ounce is not expected to cause significant harm. For larger amounts, do not induce vomiting. Give milk or water. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Fire and Explosion Hazards:

Avoid contact with water reactive materials, burning metals and electrically energized equipment.

Special instruction for firefighters:

This product will produce foam when mixed with water.

Section 6: Accidental Release Measures

Personal precautions:

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting:

Use appropriate protective equipment during clean up. For small volume releases, collect spilled concentrate with absorbent material, place in approved container. For large volume releases, contain and collect for use where possible. Flush area with water until it no longer foams. Exercise caution, surfaces may be slippery. Prevent discharge of concentrate to sewage system or any water course. Disposal should be made in accordance with federal, state and local regulations.

Section 7: Handling and Storage

Handling:

Avoid contact with eyes, skin or clothing. Avoid ingestion or inhalation. Rinse skin and eyes thoroughly in case of contact.

Information about fire and explosion protection:

The product is not flammable.

Storage:

Store product in original shipping container or tanks designed for product storage.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

Check the permeability prior to each use of the glove.

Eye protection:

Tightly sealed goggles

Section 9: Physical and Chemical Properties

Form:

Liquid

Odor:

Not determined

Odor threshold:

Not determined

pH:

4.0-4.5

Melting point/melting range:

Not determined

Boiling point/boiling range:

Not determined

Flash point:

Not determined

Evaporation rate:

<1

Flammability:

Not determined

Upper/lower flammability or explosive limits:

Not determined

Auto ignition temperature:

Not determined

Danger of explosion:

Not determined

Vapor pressure:

Not determined

Vapor density:

Not determined

pH:

8.0

Specific gravity:

1.04 @ 25 Deg Celcius

Freezing point:

-8 Deg Celcius

Odor:

Mild, pleasant

Color:

Straw yellow

Solubility in/Miscibility with water:

100%

Section 10: Stability and Reactivity

Reactivity:

No further relevant information available.

Chemical stability:

Stable

Conditions to avoid:

Avoid use of product on burning metals, electrically energized equipment and contact with water reactive materials.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

N/A

Section 11: Toxicological Information

This product has not been tested as a whole for acute oral and inhalation toxicity, primary eye irritation, or primary skin irritation.

Section 12: Ecological Information

Ecotoxicological Information Aquatic Toxicity 96 hr. Flow Through LC50 for Saltwater Minnows (*Fundulus heteroclitus*) is reported to be greater than 500 ppm.

Environmental Fate

BOD20 Concentrate 480,000 mg/kg

COD Concentrate 516,000 mg/kg

Section 13: Disposal Considerations

Waste Disposal:

Do not discharge into biological sewer treatment systems.

Do not flush to waterways.

Disposal should be made in accordance with federal, state and local regulations foam solution can be treated by waste water treatment facilities.

Specific concerns are high BOD load. Dilution will reduce BOD and COD factors proportionately.

Section 14: Transport Information

UN Number: Void

UN proper shipping name: Fire Extinguisher Charges or Compounds

Transport hazard classes(es): Void

Packing group: Void

Environmental hazards: Not Applicable

Special precautions for user: Not applicable

Section 15: Regulatory Information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

This product is a fire extinguishing agent. It shall not be used for other purposes.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.