

FireAde²⁰⁰⁰

Don't Fight Fires...Extinguish Them!



- UL /ULC Listed Foam Liquid Concentrate (UL 162, NFPA 11, NFPA 16)
- UL /ULC Classified Wetting Agent (NFPA 18-2006)
- MPA Dresden EN 1568-3: 2008
- CCS/CCCF/CCCS (IMO testing standards)
- ICAO Level B (International Civil Aviation Organization)

Global Leader

Fire Service Plus is committed to saving lives and protecting the environment by manufacturing the most complete and advanced firefighting foam agents. Fire Service Plus is the global leader in manufacturing the most environmentally friendly and cost effective firefighting foam agents in the World. FireAde 2000, our premier product, redefines the newest standards for the firefighting industry, resulting from thirty years of groundbreaking research and development and rigorous environmental testing.



environment. Our innovative technology branches away from the traditional firefighting foam agent chemistry, thus creating FireAde 2000 the most environmentally friendly, non-toxic, and non-corrosive firefighting foam agent ever produced.

We Care About Our Environment

Today, there is increased awareness and concerns regarding the environmental footprint firefighting foams create. Fire Service Plus uses water based and food grade ingredients to protect the integrity of the



Simplification

Our introduction of FireAde 2000, the first "true" Class A Wetting Agent (NFPA 18-2006) and Class B Foam Liquid Concentrate (UL 162, NFPA 11 and 16), has simplified the firefighting foam industry. FireAde 2000 enables Fire Departments and industries to increase levels of safety and efficiency, while reducing overall costs.

TOXICOLOGICAL INFORMATION:

Acute Toxicity: The product may cause eye and slight skin irritations, and nausea and diarrhea if large amounts are swallowed. No toxic effects are to be expected if industrial hygiene standards are maintained.

Acute Oral Toxicity: LD 50 (rat, oral): > 2000 mg/kg

Acute Inhalative toxicity: No Data

Sensitization: No sensing effect known

Fish Toxicity: ECO: 20 g/l/48h

EC50: 40mg/l/48h

Ecotoxic effects: Biodegradable, no adverse effects to sewage plants are to be expected.

Ecotoxic data for 3% aqueous solution:

Fish Toxicity: LC50: 1330 mg/l

Daphnia Toxicity: EC50: 26,000 mg/l/48h

Algal Toxicity: EC50 63,390mg/l/72h | EC20 18,830 mg/l/72h | EC10 9950 mg/l/72h

COD 3%: 9680 mg O2/l

BOD 3%: 1920 mg O2/l

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www.fireade.com

Applications



CLASS-A FIRES

Class-A fires are the most common type of fire. They occur when an organic solid material such as wood becomes sufficiently hot, and has oxygen available to it, causing combustion.

Materials: Wood, Paper, Cotton, Hay, Coal, Tires

Application for Class A: 0.25% - 1%



CLASS-B FIRES

US Class-B fires involve flammable or combustible liquid
Non-Polar Solvents

Materials: Gasoline, Diesel, Jet Fuel, Kerosene, Crude Oils

Application: 1%, 3% and 6%

Polar Solvents

Materials: Alcohols, Acetones, Methanol, MEK, Ethanol Fuels (E-95, E-85, E-10)

Application: 6% (indirect aspiration required)



CLASS-C FIRES

Flammable gases together with air or oxygen in the right concentration will burn (normally under pressure)

Materials: L.P.G., Butane, Acetylene, Hydrogen, natural gas and Methane

Application for Class C: 6% to blow the fire out, and 3% for producing a vapor barrier.



CLASS-D FIRES

Class-D fires are metal fires. Certain metals, such as sodium, titanium, magnesium, potassium, lithium, calcium and others are flammable. Magnesium and titanium fires are most common.

Application for Class D: 6% (reduced pressure or aspiration required)



CLASS-E FIRES

Class-E fires are fires involving, and probably started by, potentially energized electrical equipment.

Application for Class-E: DO NOT APPLY TO ELECTRICAL FIRES WITHOUT PROPER EQUIPMENT AND TRAINING.



CLASS-F FIRES

Class-F fires are fires that involve cooking oils.

Materials: Fat or grease

Application for Class-F: 6% (misting, reduced pressure or aspiration required)

PHYSICAL PROPERTIES:

Appearance

Physical state: Liquid

Color: Transparent, slightly red.

Odor: Faint pleasant odor

Relevant data for Safety and Health

for the product (concentrate):

Melting point/ range: 1C

Boiling point/ range: 127C

Pour Point: -12C (10.4F)

Flash range: No inflammability

Vapor pressure: Almost like water

Substance weight: 1.001 g/ml

Solubility in water: Miscible

pH value: Neutral

Volatile components: Water

Kinematic viscosity: 2.23 mm²/ sec at 20c and 4.74 mm²/ sec at 5c

Viscosity:

9.74 cps at 2C (35F)

6.10 cps at 21C (70F)

4.32 cps at 49C (120F)

Surface tension:

Product: 16.2 dynes/cm

1% solution: 20.8 dynes/cm

0.25% solution: 22.5 dynes/cm

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Pulp & Paper



Power Utilities



Tires



Refinery



Metals

Demos and Data Sheets Available
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Manufacture Contact



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FRSA

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