

Material Safety Data Sheet

LOADED STREAM FIRE EXTINGUISHER

QUICK IDENTIFIER
Common Name: (used on label and list)

May be used to comply with OSHA's Hazard Communication Standard,
29CFR 1910.1200. Standard must be consulted for specific requirements.

000269

SECTION 1 -

Manufacturer's Name

LOADED STREAM CHEMICAL CO.

Address

P.O. BOX 2624- 5 HUMPHREYS DRIVE

Emergency Telephone No.

(215) 322-1911

City, State, and ZIP

IVYLAND, PA. 18974

Other Information Calls

Signature of Person Responsible for Preparation (Optional)

Date Prepared

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))

OSHA PEL

ACGIH TLV

Other Exposure Limits

% (optional)

CAS NO.

ETHYLENE GLYCOL - $\text{HOCH}_2\text{CH}_2\text{OH}$

CAS# 107-21-1

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point 194^oF (90^oC)

Specific Gravity (H₂O=1) 1.433

Vapor Pressure (mm Hg)

Vapor Density (Air = 1)

Solubility in Water

100%

Reactivity in Water

Appearance and Odor AMBER - MILD

Melting Point

SECTION 4 - FIRE & EXPLOSION DATA

N/A

Flash Point

F. C.

Method Used

Flammable Limits in Air % by Volume LEL Lower

UEL Upper

Auto-Ignition Temperature

Extinguisher Media

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Unstable Conditions
Stable to Avoid

Compatibility
Materials to Avoid:

Hazardous
Decomposition Products

Hazardous Polymerization May Occur Conditions
Will Not Occur to Avoid

SECTION 6 - HEALTH HAZARDS

1. Acute 2. Chronic

Signs and
Symptoms of Exposure

Medical Conditions Generally
Aggravated by Exposure

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program Yes No I.A.R.C. Monographs Yes No OSHA Yes No

Emergency and
First Aid Procedures

ROUTES OF ENTRY
1. Inhalation REMOVE TO FRESH AIR. CALL A PHYSICIAN IF DISCOMFORT PERSIST.
2. Eyes FLUSH WITH WATER.
3. Skin REMOVE CONTAMINATED CLOTHING & FLUSH SKIN WITH WATER.
4. Ingestion IF CONSCIOUS, GIVE TWO GLASSES OF WATER & INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken
in Handling and Storage

Other
Precautions

Steps to be Taken in Case
Material is Released or Spilled FLUSH WITH WATER

Waste Disposal
Methods (Consult federal, state, and local regulations)

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

N/A

Respiratory Protection
(Specify Type)

Ventilation Local Exhaust Mechanical (General) Special Other

Protective Gloves Eye Protection

Other Protective
Clothing or Equipment

Work/Hygienic Practices

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

**MATERIAL SAFETY
DATA SHEET**

3M
3M Center
St. Paul, Minnesota 55144
(612) 733-1110

PSC

Form 15593-C PWO

DUNS NO.

| | | |
|--|-----------------------------|--|
| Chemical Family Fire Control Agent | Trade Name FC-600 | LIGHT WATER[®] Brand Alcohol Type Concentrated Aqueous Film Forming Foam |
| 3M I. D. Number 98-0211-0334-0 (5 gallon) | | Commercial Chemicals Division |

| 1. INGREDIENTS | CAS. # | % | TLV |
|-------------------------|-----------|----|-------|
| Water | 7732-18-5 | 80 | |
| Butyl Carbitol | 112-34-5 | 15 | Not E |
| Synthetic Detergents | | <5 | Not E |
| Fluoroalkyl Surfactants | | <5 | Not E |
| Hydrophilic Polymer | | <5 | Not E |
| | | | |
| | | | |
| | | | |
| | | | |

| 2. PHYSICAL DATA | | | | |
|------------------------------|------------------------------|--------|---------------------------------------|------|
| Boiling Point | Initial | ~200°F | Solubility in Water | Misc |
| Vapor Pressure | | | Specific Gravity (H ₂ O=1) | ~1. |
| Vapor Density (Air = 1) | | | Percent Volatile | ~93 |
| Evaporation Rate (BuOAc =1) | | <1 | pH | ~7- |
| Appearance and Odor | Clear, amber colored liquid. | | | |

| 3. FIRE AND EXPLOSION HAZARD DATA | | | | |
|------------------------------------|---|-------------------|-------|-------|
| Flash Point (Test Method) | None | Flammable Limits: | LEL = | UEL = |
| Extinguishing Media | FC-600 is a fire extinguishing agent. | | | |
| Special Fire Fighting Procedures | None | | | |
| Unusual Fire and Explosion Hazards | Toxic by-products including HF may be formed. | | | |

| 4. ENVIRONMENTAL INFORMATION | |
|------------------------------|--|
| Spill Response | Collect spilled material. Wash residue to wastewater treatment system. |

Recommended Disposal
Bleed to wastewater treatment system in accordance with local regulations. Reduce discharge rate if foaming occurs. Diluting 1 gallon of FC-600 in ≥ 10,000 gallons of sewage prevents serious foaming in aeration basins and prevents sludge settling problems in clarifiers.
U.S. EPA Hazardous Waste No.: None.

Environmental Data
96-Hr. LC50 Bluegill Sunfish (*Lepomis macrochirus*) - 1,500 mg/l
96-Hr. LC50 Fathead Minnow (*Pimephales promelas*) - 1,700 mg/l
48-Hr. LC50 *Daphnia magna* - 2,800 mg/l
Chemical Oxygen Demand (COD) - 0.35 g/g
20-Day Biochemical Oxygen Demand (BOD₂₀) - 0.21 g/g

Threshold Limit Values listed above are current to 1982. Because they are reviewed yearly by ACGIH and subject to change (usually to necessary for the user of this Material Safety Data Sheet to maintain a list of revised TLV's and update the sheet periodically

TRADE NAME: FC-600 LIGHT WATER Brand Alcohol Type Concentrate/Aqueous Film Forming Foam

5. HEALTH HAZARD DATA

Eye Contact Moderate eye irritation can occur upon direct contact with the concentrate. Diluted FC-600 (9 parts FC-600 in 91 parts water) is minimally irritating ocularly. Avoid eye contact.

Skin Contact Undiluted FC-600 is moderately irritating to the skin. Diluted FC-600 is minimally irritating. Gloves are recommended when handling this FC-600 concentrate.

Inhalation

The inhalation hazard associated with FC-600 use is low. Aspiration of the concentrate may be hazardous. Avoid prolonged inhalation of the spray or mist.

Ingestion Undiluted FC-600 has an acute oral LD₅₀ (rat) greater than 10gm/kg. This classifies this product as being practically non-toxic orally.

Suggested First Aid

EYE CONTACT: Flush eyes with plenty of water. Continue for 10 minutes. Call a physician.
SKIN CONTACT: Wash affected area with water and soap.
INHALATION: Remove person to fresh air.
INGESTION: - DO NOT INDUCE VOMITING. Call a physician.

6. REACTIVITY DATA

| | | |
|--------------------------|---|---------------------|
| STABILITY | <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable | Conditions to Avoid |
| INCOMPATIBILITY | | Materials to Avoid |
| HAZARDOUS POLYMERIZATION | <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur | Conditions to Avoid |

Hazardous Decomposition Products

Thermal decomposition may produce toxic materials including HF.

7. SPECIAL PROTECTION INFORMATION

Eye Protection: Glasses or goggles when handling concentration. Skin Protection: Gloves

Ventilation: General ventilation adequate.
Respiratory and Special Protection:

Other Protection:

8. PRECAUTIONARY INFORMATION

Avoid eye and skin contact.

9. DEPARTMENT OF TRANSPORTATION

DOT Proper Shipping Name: Not Applicable
DOT Hazard Class: Not Applicable

Issue Date: May, 1983
Supersedes: Sept.,

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions of use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other substance is the responsibility of the user.