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MATERIAL SAFETY DATA SHEET FF-200 Fire Foam

Trade Name: FF-200
Formula: Proprietary Mixture
Chemical Family: Organic Mixture
CAS #: Proprietary

S.A.R.A. INFORMATION
HAZARDS : ACUTE FIRE
PHYSICAL DATA : MIXTURE LIQUID

SECTION 1 -- HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Components	CAS #	Wt. %	OSHA (PEL)
Blend of Organic Surfactants	mixture	proprietary	none established

SECTION 2 -- HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

Inhalation: Absorption: Ingestion: Injection: N/A

POTENTIAL EFFECTS OF EXPOSURE:

EYES: Eye contact with product may cause irritation.

SKIN: Skin contact may cause irritation, dermatitis. May be absorbed in harmful amounts.

INHALATION: Inhalation unlikely at normal use temperatures. Inhalation may cause irritation, aspiration pneumonia, central nervous system (CNS) depression. Symptoms of early to moderate CNS depression include giddiness, confusion, drunken behavior, headache, nausea, diarrhea, vomiting, tiredness and drowsiness. In extreme cases, symptoms of CNS depression include stupor, convulsions, unconsciousness, coma and even death. Aspiration (breathing) of liquids, mist or vomitus (vomit) into lungs can cause aspiration (chemical) pneumonia, hemorrhaging (bleeding), lung damage and even death. Symptoms of aspiration include coughing, labored breathing and bluish skin.

INGESTION: Ingestion may cause irritation, aspiration pneumonia and CNS depression. Symptoms of early to moderate CNS depression include giddiness, confusion, drunken behavior, headache, nausea, diarrhea, vomiting, tiredness and drowsiness. In extreme cases, symptoms of CNS depression include stupor, convulsions, unconsciousness, coma and even death. Aspiration (breathing) of liquids, mist or vomitus (vomit) into lungs can cause aspiration (chemical) pneumonia, hemorrhaging (bleeding), lung damage and even death. Symptoms of aspiration include coughing, labored breathing and bluish skin.

TARGET ORGANS: Overexposure may cause damage to the following systems, functions and organs: central nervous system.

FIRST AID:

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart to ensure flushing of entire surface. Contact a physician.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Contact a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficult, give oxygen. Contact physician.

INGESTION: If swallowed, dilute with water and induce vomiting. Never give fluids or induce vomiting if victim is unconscious or convulsing. If vomiting occurs spontaneously, keep head above hips to prevent breathing of vomit into lungs. Contact physician immediately.

SECTION 3 -- SPECIAL PROTECTION

Respiratory Protection: NIOSH-approved respirator if PEL is exceeded

Ventilation: Local Exhaust-recommended General Exhaust-recommended

Special: use SCBA when entering tanks

Protective Gloves: chemical resistant/non-slip

Eye Protection: chemical safety goggles/safety glasses

Clothing or Equipment: coveralls, splash aprons, eye wash and safety shower

Work and Hygienic Practices: clean spills promptly, wash contaminated clothing

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SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

Flash Point °F: >140
Method: PMCC
Flammable Limits: LEL % NA UEL. % NA
Based on: organics

FIRE HAZARDS: Flammable/combustible material may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Containers may explode in heat or fire. Vapor explosion hazard indoor, outdoor or in sewers. Runoff to sewer may create fire or explosion hazard.

EXTINGUISHING MEDIA: Dry chemical, CO₂, water spray or regular foam. Move container from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is extinguished. Stay away from ends of containers.

SECTION 5 -- PHYSICAL DATA

Boiling Point (°F):	212	Solubility in Water:	soluble
Freezing Point(°F):	<32	Appearance:	light amber liquid
Vapor Pressure (mm Hg):	no data	Odor:	
Vapor Density (air = 1):	no data	pH:	NA
Evaporation Rate:	no data	Specific Gravity:	0.99-1.02

SECTION 6 -- REACTIVITY DATA

Chemical Stability: stable
Conditions to Avoid: none known
Incompatibility (materials to avoid): strong oxidizers
Hazardous Polymerization: will not occur

HMIS Info: Health - 1 Fire - 0 Reactivity - 0 Special -

SECTION 7 -- SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Shut off ignition sources. No flares, smoking or flames in hazard area. Stop leak if you can do so without risk. Water spray may reduce vapor, but may not prevent ignition in closed areas. Take up with sand or other non-combustible absorbent material and place in container for later disposal.

DISPOSAL METHOD: Dispose of material in accordance with all applicable Federal, State and Local regulations.

SECTION 8 -- SHIPPING DATA

Hazard classification:
UN/NA #:
Labels Required: none
DOT ER Guide #:
Proper Shipping Name/Description: liquid foamer
RQ in lb. NA
RQ in gallons NA
pH NA
Flash Point (°F) >140
Pkg. Group NA
IMDG PG, # NA

SECTION 9 -- ADDITIONAL INFORMATION

PRECAUTIONS: Wear protective equipment when handling. Use with adequate ventilation. Wash thoroughly after handling. Do not breathe vapor or mist. Do not get into eyes, on skin or clothing. Do not swallow.

HANDLING: Keep heat, lights, fire and sparks away. Drum must be grounded and boned to receiving container when being emptied. For industrial use only. Use spark-proof tools. Do not heat container. Container hazardous when empty. All label precautions apply when container empty.

STORAGE: Store in a cool, dry place. Keep container closed when not in use. Store away from oxidizers, sunlight, heat, sparks, flames or electrical arcs (switches). Store in accordance with NFPA requirements. Keep out of reach of children.

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