



TECHNICAL DATA SHEET

F-500 ENCAPSULATOR AGENT

Date Prepared: February 21, 2014

PRODUCT IDENTITY

Product Name: F-500 Encapsulator Agent
D.O.T.: Not Regulated
Formula: Proprietary
Chemical Family: Surfactant
Class Fires: Class A & B
Proportioning Rate: ¼%, ½%, 1%, 3%, 6% by volume

PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point:	250°F	Melting Point:	N/A
Specific Gravity:	0.990+/- .01	Vapor Pressure (mm/Hg):	N/A
Surface Tension (dyne/cm ²):	<29.0 @ 3%	Vapor Density (Air=1):	N/A
Percent Volatile by Volume:	N/A 100% Concentrate	Viscosity at 72°F:	85 cP @ 72°F
Flammable Limit:	N/A	Solubility in Water:	Complete
Reactivity with Water	No	Flash Point:	N/A
Auto-Ignite Temperature:	N/A	Freeze Temperature:	<20°F
Evaporation Rate:	<1 compared to water	Storage:	35°F - 130°F
Appearance:	Amber	Freeze Harm:	None
Odor:	Mild	Shelf Life (unopened):	15 years
Fire Extinguisher Media:	N/A	pH:	7.0 +/- 0.1

ENVIRONMENTAL DATA

Corrosivity (Steel Coupons):	7.0 micrometers/year (fresh water=8 micrometers/year)
BOD ₅ (3% Solution):	12,000 mg/l at 3%
COD (3% Solution):	58,000 mg/l at 3%
Biodegradability (BOD ₅ /COD Ratio):	0.20
Fluorocarbon compounds:	None
Glycol Ethers:	None
Phosphates:	None
LD ₅₀ :	>5 g/kg (See Note 1)
Reverse Mutation Assay:	Non-mutagenic (Salmonella and E. Coli standards)
EC ₅₀ Microbial Toxicity:	3,000 mg/l
LC ₅₀ (Rainbow Trout):	1.20 mg/l
Smoke Toxicity Reduction (toluene fire):	>98% reduction in toxins emitted into the air

APPROVALS

Complies with applicable requirements in the Standard for Foam Equipment and Liquid Concentrates, UL 162, and the NFPA Standard for Wetting Agents, NFPA 18.

ISO (Insurance Services Office) rates F-500 EA as comparable to foam for community risk assessment.

Note 1: The LD₅₀ for F-500 EA exceeds the minimum requirements by the US Food and Drug Administration for inclusion in food items to be consumed by humans, which is not the intended use.