

# MATERIAL SAFETY DATA SHEET



## F-500 MULTI-PURPOSE ENCAPSULATOR AGENT

Date Prepared: December 29, 2009

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### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

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**PRODUCT NAME:** F-500 MULTI-PURPOSE ENCAPSULATOR AGENT

**MANUFACTURER/SUPPLIER:**

Hazard Control Technologies, Inc.  
150 Walter Way  
Fayetteville, GA 30214

**EMERGENCY TELEPHONE NUMBERS:**

(770) 331-3707

**HEALTH AND SAFETY INFORMATION:**

(770) 719-5112

**CHEMICAL NAME:** Not Applicable - Blend

**GENERAL PRODUCT INFORMATION:**

(770) 719-5112

**CHEMICAL FAMILY:** Surfactant

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### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

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The composition of this mixture is proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.

This product is not hazardous as defined in RCRA, 40 CFR261 based on compositional information.

OSHA HAZARD	COMPONENT
Irritant	Nitrioltrisethanol aliphatic soap
Irritant	Alkyl ether amine reaction with aliphatic acids
Irritant	Linear aliphatic alcohols

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### SECTION 3. HAZARDS IDENTIFICATION

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#### POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** May cause excessive watering, redness and burning.

**SKIN CONTACT:** Non-sensitizing (OECD 406). Frequent or prolonged contact may cause minor irritation and drying of skin.

**INHALATION:** Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

**INGESTION:** May cause gastrointestinal irritation/diarrhea.

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## SECTION 4. FIRST AID MEASURES

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**EYE CONTACT:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

**SKIN CONTACT:** Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. If irritation persists, seek medical attention.

**INHALATION:** Immediately remove the affected victim from exposure, and administer fresh air. Apply artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

**INGESTION:** Do NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. Do NOT attempt to give anything by mouth to an unconscious person.

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## SECTION 5. FIRE FIGHTING PROCEDURES

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**FLASHPOINT:** 172°F

**LEL:** Not determined

**FLAMMABLE LIMITS:** Not determined

**AUTOIGNITION TEMPERATURE:** Not determined

**EXTINGUISHING MEDIA:** Apply water to extinguish

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Product is a fire fighting extinguishing agent. Product is a non-flammable liquid; however, exposure to high heat for extended period of time could cause combustion. If combustion occurs, apply water to extinguish.

**NOTE:** No hazardous byproducts are known.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### LAND SPILL

F-500 is not a hazardous waste under RCRA, 40 CFR261. Dispose of in accordance with local, state and federal regulations.

When product is used to mitigate a hazardous material, the resultant material must be handled in the same fashion as the hazardous material. Contain liquid with sand or earth. Do not use combustible materials such as sawdust. Recover liquids by pumping (use an explosion proof or hand pump if recovering flammable liquids) or with a suitable absorbent. Consult an expert on disposal of recovered material.

### WATER SPILL

Dike or contain any spill. Avoid direct discharge into any body of water. Diluted product may be acceptable in municipal wastewater treatment plants. Consult local authorities. Dispose of in accordance with local, state and federal regulations.

## SECTION 7. STORAGE AND HANDLING

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**ELECTROSTATIC ACCUMULATION HAZARD:** No, but use proper grounding procedure

**STORAGE TEMPERATURE, DEG F:** 35°F -130°F

**STORAGE/TRANSPORT PRESSURE, MMHG:** Atmospheric

**LOADING/UNLOADING VISCOCITY, CP:** 85 cP at 72°F

**STORAGE AND HANDLING:** Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Protect material from direct sunlight. This material is not a static accumulator, but use proper grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE CONTROLS:** Ventilation should be provided to control worker exposures and prevent health risk.

**PERSONAL PROTECTION:** For open systems with good ventilation and where contact is likely, wear long sleeves, chemical resistant gloves, and chemical goggles. In confined spaces, where contact may occur, wear in addition to the above, rubber boots and respiratory protection. Typically respiratory protection is not required under normal conditions of use. If vapors reach bothersome levels, and engineering work practices or other means of exposure reduction are not adequate, provide ventilation or wear NIOSH-approved respirator equipped with organic vapor cartridges.

**EXPOSURE GUIDELINES:** No workplace exposure limits have been established for this product.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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**SPECIFIC GRAVITY:** 0.99 +/- .01

**SOLUBILITY IN WATER, WT. % @ DEG F:** 100% (complete) @ 72°F

**VISCOSITY OF LIQUID, CP @ DEG F:** 85 cP @ 72°F

**MINIMUM POUR POINT, DEG F:** 17°F

**EVAPORATION RATE:** <1 Compared to water

**BOILING POINT, DEG F:** 250°F

**pH:** 7.0 +/- 0.1

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## SECTION 10. STABILITY AND REACTIVITY

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**STABILITY:** Product is stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION:** None identified

**CONDITIONS TO AVOID INSTABILITY:** Avoid contact with strong oxidizing agents

**MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:** Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** None identified

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## SECTION 11. TOXICOLOGY INFORMATION

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PLEASE CALL THE NON-EMERGENCY TELEPHONE NUMBER ON  
PAGE 1 IF INFORMATION IS REQUIRED.

EC<sub>50</sub> (microbial toxicity) – *Activated Sludge Microorganisms* – 3,000.00 mg/L

LC<sub>50</sub> (aquatic toxicity) – *Pimephales promelas* – 1.20 mg/L

LD<sub>50</sub> (acute oral toxicity) – Rat (*Rattus norvegicus*) - > 5.00 g/kg

Non-Mutagenic (OECD Guidelines Section 471)

Note: Toxicity Report is available upon request; ask for the TIWET Project 09440 report.

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## SECTION 12. ECOLOGICAL INFORMATION

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PLEASE CALL THE NON-EMERGENCY TELEPHONE NUMBER ON  
PAGE 1 IF INFORMATION IS REQUIRED

F-500 contains no ingredients reportable under Superfund Amendments and Reauthorization Act (SARA) Title III, Section 313 of 40 CFR-372 or the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as of July 1, 1995.

F-500 is discarded as non-hazardous waste under RCRA CFR261.

Biological Oxygen Demand (BOD<sub>5</sub>) (mg/L) (EPA 405.1) ..... 12,000 at 3%

Chemical Oxygen Demand (COD) (mg/L) (EPA 410.4)..... 58,000 at 3%

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## SECTION 13. DISPOSAL CONSIDERATIONS

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PLEASE REFER TO SECTIONS 6 AND 15 FOR DISPOSAL AND REGULATORY INFORMATION

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## SECTION 14. TRANSPORT INFORMATION

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**DEPARTMENT OF TRANSPORTATION (DOT):** This product is not regulated by DOT.

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## SECTION 15. REGULATORY INFORMATION

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**TSCA:** All components of this product are listed on the TSCA Inventory.

**CERCLA:** If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act. We recommend you contact local authorities to determine if there may be other local reporting requirements.

**SARA TITLE III:** This product does not contain materials regulated under SARA Title III, Section 313.

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## SECTION 16. OTHER INFORMATION

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### HAZARD RATING SYSTEMS:

This information is for people trained in the following

National Paint & Coatings Association's (NPCA) **Hazardous Materials Identification System (HMIS)**

National Fire Protection Association (NFPA 704) **Identification of the Fire Hazards of Materials**

	NPCA-HMIS		NFPA 704
HEALTH	0	HEALTH HAZARD	0
FLAMMABILITY	2	FLAMMABILITY	2
PHYSICAL HAZARD	0	INSTABILITY	0
		SPECIAL HAZARDS	n/a

### REVISION SUMMARY:

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REFERENCE NUMBER:

Z400.2 F-500

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SUPERSEDES ISSUE DATE:

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*This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.*