MATERIAL SAFETY DATA SHEET



F-500 MULTI-PURPOSE ENCAPSULATOR AGENT

Date Prepared: April 30, 2014

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: F-500 MULTI-PURPOSE ENCAPSULATOR AGENT

MANUFACTURER/SUPPLIER: EMERGENCY TELEPHONE NUMBERS:

(770) 331-3707

Hazard Control Technologies, Inc.

150 Walter Way

Fayetteville, GA 30214

HEALTH AND SAFETY INFORMATION:

(770) 719-5112

CHEMICAL NAME: Not Applicable - Blend GENERAL PRODUCT INFORMATION:

(770) 719-5112

CHEMICAL FAMILY: Surfactant

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

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 Nitrilotrisethanol aliphatic soap

Irritant Alkyl ether amine reaction with aliphatic acids

Irritant Linear aliphatic alcohols

SECTION 3. HAZARDS IDENTIFICATION

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

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.

SECTION 5. FIRE FIGHTING PROCEDURES

FLASHPOINT: Not determined

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 nonflammable 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.

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SECTION 7. STORAGE AND HANDLING

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 any 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

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

SECTION 11. TOXICOLOGY INFORMATION

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

EC₅₀ (microbial toxicity) – *Activated Sludge Microorganisms* – 3,000.00 mg/L

LC₅₀ (aquatic toxicity) – *Pimephales promelas* – 1.20 mg/L

 LD_{50} (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.

SECTION 12. ECOLOGICAL INFORMATION

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 nonhazardous waste under RCRA CFR261.

Biological Oxygen Demand (BOD ₅) (mg/L) (EPA 405.1)	. 12,000 at 3%
Chemical Oxygen Demand (COD) (mg/L) (EPA 410.4)	. 58,000 at 3%

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

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

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SECTION 15. REGULATORY INFORMATION

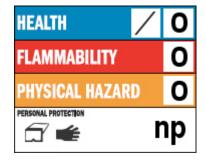
TSCA: All components of this product are listed on the TSCA Inventory.

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.

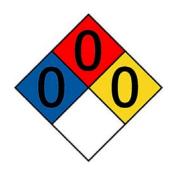
SARA TITLE III: This product does not contain materials regulated under SARA Title III, Section 313.

SECTION 16. OTHER INFORMATION

NPCA-HMIS



NFPA 704



REVISION SUMMARY:

REFERENCE NUMBER: Z400.2 F-500

SUPERSEDES ISSUE DATE: January 1, 2013

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.

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