

Safety Data Sheet

Section 1 - Identification

Product Identifier

Product NameF-500 Multi-Purpose Encapsulator AgentSynonymsF-500 Encapsulator Agent, F-500EA, #F500EA

Relevant identified uses of the substance or mixture and uses advised against

Recommended use Fire Suppression and Flammable Vapor Mitigation Agent

Contact Manufacturer for other applications and uses

Details of the supplier of the safety data sheet

Manufacturer Hazard Control Technologies, Inc.

150 Walter Way Fayetteville, GA 30214

United States www.hct-world.com info@hct-world.com 770-719-5112

Telephone (General)

Emergency telephone number

Manufacturer 770-719-5112

Section 2 - Hazard Identification

UN GHS Revision 4

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Fourth Revised Edition

Classification of the substance or mixture

UN GHS • Eve Irritation 2B

Hazardous to the aquatic environment, Acute 3

Label elements

UN GHS WARNING

Hazard statements
 Causes eye irritation

· Harmful to aquatic life

Precautionary statements

PreventionWear eye protection

Wash hands after handling

Avoid release to the aquatic waterway

Response • EYES: Rinse with water for several minutes. Remove

contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/attention.

• Dispose of content and/or container in accordance with

local, regional, national, and/or international regulations.

Other hazards • None



United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 Eye irritation 2B

Label elements

OSHA HCS 2012 WARNING

Hazard Statements Causes eye irritation

Precautionary Statements

PreventionWear eye protection

· Wash hands after handling

Response • EYES: Rinse with water for several minutes. Remove

contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/attention.

Other hazards • None

Section 3 - Composition/Information on Ingredients

Mixtures

Skin

• This material is a mixture.

Composition

Chemical Name	CAS Numbers	%•	Classifications According to Regulations/Directive ••
Fatty alkyl ethers reaction products with aliphatic acids	72245-02-4	40% - 50%	UN GHS Revision 4: Not Relevant OSHA HCS 2012: Not Relevant
Alcohols, C6-12	68603-15-6	5% - 8%	UN GHS Revision 4: Not Relevant OSHA HCS 2012: Not Relevant
2,2',2"-Nitrilotrisethanol aliphatic acid soap	38584-87-1	2% - 4%	UN GHS Revision 4: Not Relevant OSHA HCS 2012: Not Relevant

- Exact concentrations are withheld as a trade secret.
- •• Classification of individual ingredients within the mixture is Not Relevant as individual ingredients are not supplied separately and cannot be separated out by the end user. Further, all data presented in this SDS is based testing of the total composite mixture.

Mixture contains no PFOS, PFOA, or Fluorine Ingredients.

Section 4 - First-Aid Measures

Description of first aid measures

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulties

Wash skin with soapy water. If irritation develops or persists, get medical attention.

• Flush eyes with running water for at least 10-15 minutes. If eye irritation persists: Get

medical attention.

 Do NOT induce vomiting. Give milk or water to dilute stomach contents. Obtain medical attention immediately if ingested.



Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

· Treat Symptomatically.

Section 5 - Fire Fighting Measures

Extinguishing media

Suitable Extinguishing

Media

Product is a fire fighting extinguishing agent. Product is a

nonflammable liquid.

Unsuitable Extinguishing

Media

No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

 Product is a fire fighting extinguishing agent. Product is a nonflammable liquid; however, exposure of concentrate to high heat for extended period could cause combustion.

Hazardous Combustion

Products

No data available

Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Wear appropriate personal protective equipment.

Emergency Procedures

Isolate spill to avoid run off to waterways and storm sewers.

Keep unauthorized personnel away.

Environmental precautions

Isolate spill to avoid run off to waterways and storm sewers.

Methods and material for containment and cleaning up

Containment/ Cleanup Measures

• Stop leak if you can do it without risk.

SMALL SPILLS: Take up with sand or other non-combustible absorbent

material and place into containers for later disposal.

LARGE SPILLS: Dike far ahead of spill for later disposal.

When product is used to mitigate a hazardous material, the resultant material must be handled in the same fashion as the hazardous material.

Section 7 - Handling and Storage

Precautions for safe handling

Wear appropriate protective clothing. Prevent contact with eyes.

Conditions for safe storage, including any incompatibilities

Storage

 Keep container closed. Store in a well-ventilated place away from incompatible materials. Protect material from direct sunlight. Storage temperature. 35°F-130°F



Section 8 – Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

Exposure Limits/

Guidelines

Controls

• Exposure limits are not applicable for product.

Exposure controls

• Good general ventilation should be used. Ventilation rates should be

Measures/Controls matched to conditions.

Personal Protective Equipment

Respiratory • In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face • Wear safety goggles.

Skin/Body • Wear protective gloves and protective clothing.

Environmental Exposure • Controls should be engineered to prevent release to the environment,

including procedures to prevent spills and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Appearance/Description	Amber liquid with mild odor.	
Color	Amber	Odor	Mild	
Odor Threshold	No data available	Intentionally left blank		
General Properties				
Boiling Point	118°C (244.4°F)	Melting Point/Freezing Point	-3°C (26.6°F)	
Decomposition Temperature	No data available	pН	6.9 to 7.1	
Specific Gravity/Relative Density	0.98 - 1.0	Water Solubility	Soluble 100%	
Viscosity	70 to 100 Centipoise (cPs, cP) or mPas	Intentionally left blank		
Volatility				
Vapor Pressure	2666 hPa @ 25°C (77°F)	Vapor Density	No data available	
Evaporation Rate	No data available	Intentionally left blank		
Flammability				
Flash Point	> 93°C (> 199.4°F)	UEL	No data available	
LEL	No data available	Autoignition	No data available	
Flammability (solid, gas)	No data available	Intentionally left blank		
Environmental				
Octanol/Water Partition coefficient	No data available	Intentionally left blank		

Section 10 - Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

Incompatible materials.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

None identified.



Section 11 - Toxicological Information

Information on toxicological effects

GHS Properties	Classification			
Acute toxicity	UN GHS 4- Acute Oral LD ₅₀ (Rat) > 5,000 mg/kg			
riodic toxiony	OSHA HCS 2012• Acute Oral LD ₅₀ (Rat) > 5,000 mg/kg			
Skin corrosion/Irritation	UN GHS 4•No data available			
Okin concolor/intation	OSHA HCS 2012•No data available			
Serious eye damage/Irritation	UN GHS 4•Eye Irritation 2B			
Genous eye damage/imation	OSHA HCS 2012•Eye Irritation 2B			
Skin sensitization	UN GHS 4•No data available			
OKIT 3013III2dII011	OSHA HCS 2012•No data available			
Respiratory sensitization	UN GHS 4•No data available			
respiratory sensitization	OSHA HCS 2012•No data available			
Aspiration Hazard	UN GHS 4•No data available			
Aspiration nazard	OSHA HCS 2012•No data available			
Carcinogenicity	UN GHS 4•No data available			
Carcinogenicity	OSHA HCS 2012•No data available			
Germ Cell Mutagenicity	UN GHS 4•No data available			
Germ Cell Mutagernerty	OSHA HCS 2012•No data available			
Toxicity for Reproduction	UN GHS 4•No data available			
Toxicity for Reproduction	OSHA HCS 2012•No data available			
STOT-SE	UN GHS 4•No data available			
0101-0L	OSHA HCS 2012•No data available			
STOT-RE	UN GHS 4•No data available			
OTOT-INE	OSHA HCS 2012•No data available			

Potential Health Effects

Inhalation

Acute (Immediate)

Chronic (Delayed)

No data available

No data available

Skin

Acute (Immediate) • Prolonged contact may cause minor irritation and drying of skin

Chronic (Delayed) • No data available

<u>Eye</u>

Acute (Immediate)
Chronic (Delayed)

• Causes eye irritation
• No data available

Ingestion

Acute (Immediate)• May cause gastrointestinal irritation/diarrhea.

Chronic (Delayed) • No data available

Section 12 - Ecological Information

Toxicity

Product	CAS	Test & Result
F-500 Multi-	NDA	Aquatic Toxicity-Fish: 96 Hour(s) LC ₅₀ Golden ode (Leuciscus
Purpose		idus) 75 mg/L
Encapsulator Agent		Aquatic Toxicity-Crustacea: 48 Hour(s) EC ₅₀ Daphnia magna
		STRAUS 100 mg/L
		Aquatic Toxicity-Algae: 72 Hour(s) EC ₅₀ Algae (Desmodesmus
		subspicatus) 60 mg/L
		Microbial Toxicity-Activated Sludge Microorganism (EC ₅₀) –
		3.000 mg/L

Harmful to aquatic life, Acute 3



Persistence and degradability

Not persistent in the environment; fully biodegradable.

Bioaccumulative potential

Not Bioaccumulative.

Mobility in Soil

No data available.

Other adverse effects

None known

Section 13 - Disposal Considerations

Waste treatment methods

Product waste •

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Product is discarded as nonhazardous waste under RCRA CFR261. Product may be diluted to 0.25% solution with water and processed through a Municipal or Industrial Waste Water Treatment Plant containing Activated Sludge Microorganisms and fully biodegraded

Packaging waste

Dispose of container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user • None specified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

- This product does not contain any ingredients or reaction components within the mixture that has restricted use under the US EPA Toxic Substance Control Act.
- This product contains no ingredients or reaction components within the mixture 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).

United States Labor

U.S. – OSHA - Process Safety Management - Highly Hazardous Chemicals			
This product does not contain any ingredients or reaction Components within the	All Ingredients		
mixture that has any restricted use under this regulation.	Not Listed		



HAZARD CONTROL TECHNOLOGIES, INC.	
U.S. – OSHA – Specifically Regulated Chemicals	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
·	
Environment	
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
minute that had any recentled assume the regulation	Trot Liotod
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities	1
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
mixture that has any restricted use under this regulation.	NOT LISTED
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	
This product does not contain any ingredients or reaction Components within the	All Ingradients
	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
H.C. CEDCLA/CADA Continue 200 Futuro de Harris Contrato EDCDA	DO ₀
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
United States – California	
Environment	
U.S California - Proposition 65 - Carcinogens List	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
U.S California - Proposition 65 - Developmental Toxicity	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
,	
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
and the first of the second of	
U.S California - Proposition 65 - Reproductive Toxicity - Female	
This product does not contain any ingredients or reaction Components within the	All Ingredients
mixture that has any restricted use under this regulation.	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male

This product does not contain any ingredients or reaction Components within the mixture that has any restricted use under this regulation.

All Ingredients Not Listed

Section 16 - Other Information

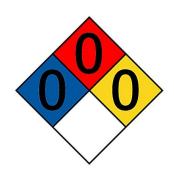
Preparation Date September 1, 2018

Last Revision Date September 1, 2018

NPCA-HMIS

NFPA 704





Compliance

This Safety Data Sheet complies with both UN Global Harmonized System (GHS) Revision 4; OSHA 29 CFR 1910.1200 HCS and OSHA 2012 Standards.

Disclaimer/ Statement of Liability

The information and recommendations presented in this SDS are based on sources, to the best of our knowledge, believed to be accurate and reliable as of the date this SDS was published. This SDS relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any process. We make no representation, warranty or guarantee expressed or implied with respect to such information and assume no liability resulting from its use. It is the user's responsibility to satisfy himself as to the suitability of such information for their own use. We do not accept liability for any loss or damage that may occur from the use of this information.

Key to abbreviations NDA= No Data Available