Non-Hazardous Product Data Sheet

General Product Name	Synonyms
PureTemp™ 4	Fatty Acid Derivative Mixture, Entropy4™

Section I

Manufacturer's Name & Address	Emergency Telephone Number
Entropy Solutions, Inc 9827 Valley View Road Minneapolis, MN 55344	For Chemical Emergency, Spill, Leak, Exposure, or Accident, call ChemTrec at 800.424.9300 day or night.
Telephone Number for Information 952.941.0306	**Date Prepared** March 5, 2009

Section II - Composition Information / Hazards Identification

Hazardous Components	CAS No.	Wt / Wt%	EC-No.	EC Symbols & R-phrases
Only chemicals which meet the OSHA definition of "hazardous" are required to have MSDSs. This product contains no hazardous materials or ingredients. Additionally, as defined by OSHA Standard 1910.1200, this product contains no hazardous chemicals. European Hazard Classification: This product is not classified as dangerous according to Directive 67/548/EEC.				
Composition Information & Trade Names		**Wt / Wt%**		
Derivative mixture of esters of lipids Esters from lipid sources		<0.1-100 <0.1-100		
HMIS Rating: F (1), H (0), R (0), S (0)				

Section III - Physical / Chemical Characteristics

Boiling Point	Specific Gravity (H_2O = 1)	Evaporation Rate (Butyl Acetate = 1)	Melting Point
>248.9°C/480°F	0.81@25°C/77°F	N/A	4°C/39.2°F
Vapor Pressure (mm Hg)	**Vapor Density (AIR = 1)**	**Physical State @ 22°C**	**Solubility - Water**
>5mm Hg @ 22°C/77°F	N/A	Liquid	Negligible at 22°C/72°F
Appearance and Odor Translucent amber liquid. Opaque amber solid. Musty odor.			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
141°C/286°F PMCC	N/A	N/A	N/A
Extinguishing Media Small fires: CO2 or dry chemical – Large fires: foam			
Special Fire Fighting Procedures Water spray may be ineffective on fire. Cool containers with flooding quantities of water until well after fire is out.			
Unusual Fire and Explosion Hazards None observed.			

Section V - Reactivity Data

Stability	Conditions to Avoid
STABLE	N/A

Incompatibility *(Materials to Avoid)*
Avoid oxidizing agents.

Hazardous Decomposition or Byproducts
Carbon monoxide with incomplete combustion.

Hazardous Polymerization
Will Not Occur

Section VI - Health Hazard Data

Route(s) of Entry: Eye?	Inhalation?	Skin?	Ingestion?
Accidental exposure to eyes may produce mild but transient irritation.	No harmful effects expected with normal use.	No irritation expected.	May cause mild gastrointestinal irritation.

Health Hazards *(Acute and Chronic)*
Practically non-toxic. The acute oral LD50 was greater than 5 g/kg body weight. The application of undiluted material to the rabbit's eye produced only mild transient irritation.

Carcinogenicity

NTP?	IARC Monographs?	OSHA Regulated?
Not listed.	Not listed.	No.

Emergency and First Aid Procedures
Eye – In case of contact, flush with copious amounts of water for at least 15 minutes.
Skin – Wash skin with soap and water. Remove contaminated clothing. Wash clothing before reuse. If irritation persists, seek medical attention.
Inhalation – Remove to fresh air. If necessary, seek medical attention.
Ingestion – Do not induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Wear protective clothing and equipment. An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is generated.

Procedures for Spill/Leak Clean-up
Ventilate area and eliminate all ignition sources. Contain spill. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal. Use clean non-sparking tools to collect absorbed material.

Environmental Precautions
Dike flow of spilled material using soil or sandbags to minimize contamination of drains, surface and ground waters.

Waste Disposal Method
DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

Transport Information
Not classified in DOT, ADR/RID, IMDG, IATA/ICAO.
UN Hazard Class: N/A
NMFC: Fatty Acid Esters
Identification Number: 144920
Shipping Classification: 65

Section VIII - Control Measures

Respiratory Protection *(Specify Type)*
None required for ambient temperature, although an appropriate NIOSH/MSHA approved air-purifying respirator should be used if a mist or vapor is generated. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. WARNING: Air purifying respirators do not protect workers in oxygen deficient atmospheres.

Ventilation	**Local Exhaust** Preferred	**Special** None
	Mechanical *(General)* May be necessary if vapor exists.	**Other** None

Protective Gloves Impervious	**Eye Protection** Goggles or face shield with goggles, dependent upon potential exposure

Other Protective Clothing or Equipment
Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.

Work/Hygienic Practices
Good industrial hygiene should be followed. Avoid breathing (heated) vapors. Avoid eye and skin contact.

Section VIII – Additional Regulatory Information

Inventory Status
United States
TSCA: This product is listed on TSCA.
CERCLA (Comprehensive Response Compensation and Liability Act): This product is not CERCLA Reportable.
SARA Title III (Superfund Amendments and Reauthorization Act): Section 312 Extremely Hazardous Substances: NONE; Section 311/312 Hazard Categories: Non-hazardous; Section 313 Toxic Chemicals: None.
RCRA Status: If discarded in its purchased form, this product would not be hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste, (40 CFR 261.20-24.
California Proposition 65: The following statement is made to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains no chemicals known to the state of California to cause cancer.
Australia, DSL (Canada), China, EINECS (EU), ENCS (Japan), Korea, PICCS (Philippines)
WGK water endangering class: 1- slightly water endangering

EC LABELING AND CLASSIFICATION
This product is not classified as dangerous according to Directive 67/548/EEC.

Canada Hazardous Ingredients – WHMIS (Canadian Workplace Hazardous Materials Information System
This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section IX – Other Information

Europe
This product safety data sheet was prepared in compliance with Directive 2001/58/EC.

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Pure Temp