

# FANCYHEAT CORPORATION SAFETY DATA SHEET

## 1. PRODUCT IDENTIFIER

PRODUCT NAME -----> **FancyLite Fuel Cell**

PRODUCT NUMBER(S)-----> 17500-F500, F505, F510, F515, F520, F525, F530,  
F535, F540, F545, F550, F555

TRADE NAMES/SYNONYMS> n-paraffin hydrocarbons C14-C16, Mixture of  
Tetradecane, Pentadecane and Hexadecane.

CAS-No: 90622-46-1

CHEMICAL FAMILY: Aliphatic Hydrocarbon

RECOMMENDED USE: Manufacture of substances.

USES ADVISED AGAINST: No information available

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: **FANCYHEAT CORPORATION**

Address: 40 VERONICA AVENUE  
SOMERSET, NJ 08873

Telephone: 1-973-589-1450

Fax: 1-732-249-0087

Emergency Telephone Number

Emergency Phone: 1-800-424-9300 (CHEMTREC)

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29CFR 1910 (OSHA HCS)

Aspiration Hazard (Category 1)

GHS Label elements, including precautionary statements



Pictogram

Signal Word: **Danger**

Hazard statement(s):  
H304 May be fatal if swallowed and enters airways.

Precautionary statement(s):  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P331 Do not induce vomiting  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 3. INGREDIENTS

Ingredient	CAS No.	% by WT. Range	CLASSIFICATION
n-paraffins C14-C16	90622-46-1	99-100	Aspiration Hazard (Category 1)
This product is listed in TSCA inventory as Alkanes (C14-C16).			

### 4. FIRST-AID PROCEDURES

#### INHALATION:

**\*\*FIRST AID- Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention.**

#### SKIN CONTACT:

**\*\*FIRST AID- Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention if irritation persists.**

## **EYE CONTACT:**

**\*\*FIRST AID- Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15-20 minutes). Remove contact lenses, if worn, after initial flush. Get medical attention immediately.**

## **INGESTION:**

**\*\*FIRST AID- Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician or poison control center, treat symptomatically.**

## **5. FIRE FIGHTING MEASURES**

### **SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:**

**UNIFORM FIRE CODE: Combustible Liquid Class IIIB**

**Flash Point: 244°F TCC  
Auto-ignition temp.: 400°F**

**LEL %:0.5  
UEL %:4.7**

**SUITABLE EXTINGUISHING MEDIA: Foam--> x CO2--> x Dry Chemical--> x  
Water-fog--> x Other-->**

**CONDITIONS OF FLAMMABILITY: Not Flammable or Combustible.**

**ADVICE FOR FIREFIGHTERS: Shut off source. Keep unnecessary people away; isolate hazard area and deny entry. Avoid breathing vapors, stay upwind. Do not spray pool fires directly. A solid stream of water or foam directed into hot burning liquid can cause frothing. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containers with flooding amounts of water from as far a distance as possible. Wear NIOSH approved self-contained breathing apparatus for confined spaces and full protective gear.**

**UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. NFPA Class IIIB Combustible liquid. Closed containers may explode when exposed to extreme heat.**

**COMBUSTION PRODUCTS:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, carbon oxides and other unidentified organic compounds evolve when this material undergoes combustion.

## **6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PROTECTIVE MEASURES:** Avoid contact with eyes. Eliminate ignition sources in the vicinity of the spill or released vapor. Immediately evacuate all nonessential people. Verify that responders are properly trained and wearing appropriate respiratory equipment and fire resistant protective clothing during cleanup operations.

**METHODS FOR CONTAINMENT AND CLEAN UP:** Shut off valves, contain spill, keep out of water sources and sewers. Dike area to contain spill, recover liquid for reuse or reclamation. Next add non combustible absorbent to pick up residual material in the spill area. Collect saturated absorbent and place in approved container for disposal. Minimize breathing vapors and skin contact, ventilate confined areas, open all windows and doors, assure conformity with applicable government regulations. Keep all nonessential people away.

## **7. HANDLING AND STORAGE**

**PERSONAL PRECAUTIONARY MEASURES:** Avoid breathing vapors in top of shipping container. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not take internally.

**HANDLING INFORMATION:** Avoid work practices that may release volatile components in the atmosphere. Avoid contaminating soil or releasing material into sewage and drainage systems. Use non-sparking tools to open or close containers.

**CONDITIONS FOR SAFE STORAGE:** Follow maximum allowed pile heights specified in the BOCA codes or the NFPA manual. Local fire authorities should be notified for storage of this material in any quantity. Local permits are required for storage in warehouse quantities. Do not store above 120°F. Store large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers tight and upright to prevent leakage. Do not store with incompatible materials. Keep containers closed when not in use. Do not consume food, drink or use tobacco products in areas where they may become contaminated with this material.

**CONTAINER WARNINGS:** Containers should be Bonded and Grounded when pouring. Avoid free fall of liquid in excess of a few inches. Empty containers release residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or expose such containers to heat, sparks, static electricity or other sources of ignition. Do not attempt to clean. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner.

## 8. EXPOSURE CONTROL (PERSONAL PROTECTION)

### EXPOSURE GUIDELINES:

Ingredient	CAS No.	% by WT. Range	Exposure Limits
n-paraffins C14-C16	90622-46-1	99-100	5mg/M3 8hr. TWA
This product is listed in TSCA inventory as Alkanes (C14-C16).			

Key: (PEL) = Permissible Exposure Limit OSHA  
(TLV) = Threshold Limit Value OSHA & ACGIH  
(STEL) = Short Term Exposure Limit ACGIH  
(WEEL) = USA. Workplace Environmental Exposure Levels  
(TWA) = Time Weighted Average  
CAS = Chemical Abstracts Registry Number  
IDLH = Immediate Danger to Life and Health  
N.E. =None Established

**EXPOSURE GUIDELINES:** Consider the potential hazards of this material (Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended.

**ENGINEERING CONTROLS:** Provide general dilution or local exhaust ventilation in volume and pattern to keep concentrations within permitted exposure limits. All areas should be ventilated in accordance with OSHA Regulation 29 CFR Part 1910. Explosion proof motors should be used in mechanical ventilation.

**RESPIRATORY PROTECTION:** For vapor concentrations 1 to 10 times OSHA TLV or PEL an air purifying NIOSH/MSHA Approved respirator with full face-piece and organic vapor cartridges. For concentrations over 10 times OSHA TLV or PEL, in confined areas, and/or where vapor concentrations are unknown use a NIOSH approved positive pressure full face-piece supplied air respirator.

**BODY CLOTHING:** No protective equipment is needed under normal use conditions. However employees must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged contact with this substance. Use chemical resistant apron or other impervious clothing. Remove and wash contaminated clothing before reuse.

**SKIN PROTECTION:** No protective equipment is needed under normal use conditions. However employees must wear appropriate protective gloves to prevent contact with this substance. Rubber or neoprene chemical resistant gloves.

**EYE/FACE PROTECTION:** No protective equipment is needed under normal use conditions. However employees should use safety eyewear with splash guards or face shield.

Emergency shower and eyewash should be easily accessible to the work area.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE, COLOR AND ODOR:** Water white, oily liquid with a mild hydrocarbon odor.

<b>ODOR THRESHOLD:</b>	No data available
<b>pH:</b>	No data available
<b>MOLECULAR WEIGHT:</b>	No data available
<b>MELTING POINT:</b>	4°C (39°F)
<b>BOILING POINT:</b>	248-284°C (478-544°F)
<b>SPECIFIC GRAVITY:</b>	0.768@16°C (61°F)
<b>DENSITY (25°C):</b>	0.768g/ml @16°C (61°F)
<b>VAPOR PRESSURE:</b>	<0.1 mm Hg @ 25°C (77.0°F)
<b>VAPOR DENSITY:</b>	7.1
<b>WATER SOLUBILITY:</b>	Negligible
<b>PARTITION COEFFICIENT N-OCTANOL/WATER</b>	No data available
<b>FLASH POINT:</b>	118°C(244°F) – Pensky Martins Cup
<b>EVAPORATION RATE (BUTYL ACETATE=1):</b>	<0.001
<b>UPPER FLAMMABILITY LIMIT:</b>	4.7%(V)
<b>LOWER FLAMMABILITY LIMIT:</b>	0.5%(V)
<b>AUTO INGNITION TEMPERATURE:</b>	204°C (400°F)
<b>DECOMPOSITION TEMPERATURE:</b>	No data available
<b>VISCOSITY:</b>	2.3-2.5cSt@40°C (104°F)
<b>EXPLOSIVE PROPERTIES:</b>	No data available
<b>OXIDIZING PROPERTIES:</b>	No data available
<b>OTHER INFORMATION:</b>	No data available

## **10. STABILITY AND REACTIVITY INFORMATION**

**CHEMICAL STABILITY:** Unstable ( ) Stable ( X )

**POSSIBILITY OF HAZARDOUS REACTIONS:** None under normal processing

**CONDITIONS TO AVOID:** Heat, Sparks, Pilot Lights, Static Electricity, and Open Flame. At elevated temperatures explosive decomposition may occur.

**INCOMPATIBLE MATERIALS:** Strong oxidants such as liquid chlorine, oxygen, sodium hypochlorite, inorganic acids e.g. hydrochloric acid hydrogen peroxide. Zinc

**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes, Smoke, Carbon Monoxide and Carbon Dioxide.

**HAZARDOUS POLYMERIZATION:** May occur ( ) Will not occur ( X )

## **11. TOXICOLOGICAL INFORMATION**

**Routes of Entry:** Inhalation--> x Skin--> x Ingestion--> x

**ACUTE HEALTH EFFECTS:**

**Effects of overexposure:**

**Eye>** Irritating; reddening of the conjunctiva;

**Skin>** Mildly irritating; redness, irritation and scaling.

**Inhalation>** Low vapor pressure at ambient temperature indicating that it has limited inhalation hazard. Vapor formed by heating the material may cause respiratory tract irritation.

**Ingestion>** Lung exposure to this product either by prolonged breathing of a mist or vomiting following ingestion, can lead to serious lung injury and possibly death.

**Chronic:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Typical symptoms are cardiovascular disorders, sweetish taste in the mouth, nausea, vomiting, loss of appetite, strong thirst, burning of eyes and bleeding from the nose. Damage may occur to the kidney or liver.

**Medical Conditions Aggravated by Exposure**> Individuals with pre-existing skin, central nervous system or impaired kidney or liver function should avoid contact with this material.

**ACUTE TOXICITY:**

The effects of overexposure shown in Section II are based on acute toxicity profiles. Typical values are:

Ingredient	Oral LD50(Rat)	Skin LD50(Rabbit)	Inhalation Lc50	
n-paraffin hydrocarbons	>2000mg/kg	>2000mg/kg	>5.8mg/l 4 hr	

**MUTAGENIC EFFECTS:** No data available.

**CARCINOGEN STATUS:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, and OSHA.

**REPRODUCTIVE TOXICITY:** No data available.

**Specific target organ toxicity (STOT-SE)- single exposure (Globally Harmonized System):** no data available

**Specific target organ toxicity (STOT-RE)- repeated exposure (Globally Harmonized System):** no data available

**ASPIRATION HAZARD:** No data available

**ADDITIONAL DATA:** No data available

## 12. ECOLOGICAL INFORMATION

**AQUATIC TOXICITY:**

**Low potential to affect aquatic organisms and secondary waste treatment organisms.**

**Toxicity to Fish:**

**LL50 (Pimephales promelas (fathead minnow) 96 hours**

**In the range of water solubility not toxic under test conditions.**

**Toxicity to Aquatic invertebrates:**  
EL50 (Ceriodaphnia Dubia (water flea)) 192 hours  
In the range of water solubility not toxic under test conditions.  
**Toxicity to Algae:**  
No data available

**WATERFOWL TOXICITY:** No data available

**PERSISTENCE AND DEGRADABILITY:** Readily biodegradable. OECD Test Guideline 301F (28 d): 82 %

**BIOLOGICAL OXYGEN DEMAND (BOD):** No data available

**BIOACCUMULATION:** No data available

**BIOCONCENTRATION FACTOR (BCF):** No data available

**FOOD CHAIN CONCENTRATION POTENTIAL:** None noted

### **13. DISPOSAL CONSIDERATIONS**

**WASTE TREATMENT METHODS:** Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly it is the responsibility of the user to determine the proper storage, transportation, treatment and or disposal methodologies for spent materials and residues at time of disposition. Dispose in accordance with all applicable disposal regulations. Incinerate under controlled conditions in a permitted facility.

**CONTAMINATED PACKAGING:** Dispose of as unused product.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

### **14. TRANSPORT INFORMATION**

USDOT Shipping Name-----> Not Regulated  
USDOT Hazard Classification-----> N/A  
USDOT Label Codes-----> N/A  
USDOT ID Number-----> N/A  
USDOT Package Code-----> N/A  
Emergency Response Guide-----> N/A  
Marine Pollutant-----> No

**IMDG: Not Regulated**

**IATA: Not Regulated**

## **15. REGULATORY INFORMATION**

### **SARA TITLE III (Superfund Amendment and Reauthorization Act)**

**SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355)- Not Listed**

**SECTION 313: Toxic Chemicals Listing (40 CFR 372.65)- Not Listed**

**SECTION 311/312: Hazard Categorization (40 CFR 370)- Acute Health Hazard**

### **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

**SECTION 102(A) Hazardous Substances (40 CFR 302.4)- Not Listed  
Reportable Quantity – None**

**SECTION 101(14) Reportable Quantity: None**

**Massachusetts Right To Know Components  
Not Listed**

**Pennsylvania Right To Know Components  
Not Listed**

**New Jersey Right To Know Components  
Not Listed**

**California Prop. 65 Components**

**This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**

### **TSCA (Toxic Substance Control Act)**

**Alkanes C14-C16 are listed on the TSCA Inventory.**

## **16. OTHER INFORMATION:**

**HMIS (Hazardous Materials Identification System)**

**Hazard Rating:**

**4-Extreme**

**3-High**

**2-Moderate**

**1-Slight**

**0-Insignificant**

**NFPA RATINGS (SCALE 0-4):** Health=1 Fire=1 Reactivity=0  
**HMIS RATINGS (SCALE 1-4)** Health=1 Fire=1 Reactivity=0 PPE=B

**Date of preparation**-----> **March 4, 2004**  
**Revision Number**-----> **1.2**  
**Revision Date**-----> **February 26, 2015**  
**Prepared by**-----> **T.G. Fenstermaker, Jr.**

**Acronyms:**

**ACGIH** - American Conference of Governmental Industrial Hygienists  
**AIHA** - American Industrial Hygiene Association  
**ANSI** - American Nation Standards Institute  
**API** - American Petroleum Institute  
**CERCLA** - Comprehensive Emergency Response, Compensation, and Liability Act  
**DOT** - U.S. Department of Transportation  
**EPA** - U.S. Environmental Protection Agency  
**HMIS** - Hazardous Materials Information System  
**IARC** - International Agency For Research On Cancer  
**MSHA** - Mine Safety and Health Administration  
**NFPA** - National Fire Protection Association  
**NIOSH** - National Institute of Occupational Safety and Health  
**NOIC** - Notice of Intended Change (Proposed change to ACGIH TLV)  
**NTP** - National Toxicology Program  
**OPA** - Oil Pollution Act of 1990  
**OSHA** - U.S. Occupational Safety & Health Administration  
**PEL** - Permissible Exposure Limit (OSHA)  
**RCRA** - Resource Conservation and Recovery Act  
**REL** - Recommended Exposure Limit (NIOSH)  
**SARA** - Superfund Amendments and Reauthorization Act of 1986 Title III  
**SCBA** - Self-Contained Breathing Apparatus  
**STEL** - Short-Term Exposure Limit (generally 15 minutes)  
**TLV** - Threshold Limit Value  
**TSCA** - Toxic Substances Control Act  
**TWA** - Time Weighted Average (8hr.)  
**WHMIS** - Canadian Workplace Hazardous Materials Information System

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