

# Material Safety Data Sheet

## Hollowick Lamp Fuel (HD26 Disposable Cells)



### Section 1 — Product Identification

|                             |                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:               | <b>Lamp Fuel – Used in HD26 Disposable Cells</b>                                                                                                                                         |
| Supplier:                   | Hollowick Inc., 100 Fairgrounds Drive, P.O. Box 305, Manlius, NY 13104<br>(315) 682-2163                                                                                                 |
| Emergency Telephone Number: | Your local Poison Control Center, or <b>CHEMTREC 1-800-424-9300</b> day or night.<br>Outside the continental United States, call CHEMTREC at<br>1-703-527-3887 (collect calls accepted.) |
| Date Prepared:              | <b>April 19, 2007</b>                                                                                                                                                                    |

### Section 2 — Hazardous Ingredients/Identity

**No hazardous ingredients**, as defined by OSHA Hazard Communication Standard.

**Chemical Name: Liquid Paraffin Blend.**

| <u>Component</u>                | <u>CAS Number</u> | <u>Weight %</u> |
|---------------------------------|-------------------|-----------------|
| C <sub>13</sub> Normal Paraffin | 629-50-5          | <1%             |
| C <sub>14</sub> Normal Paraffin | 629-59-4          | 5 - 55%         |
| C <sub>15</sub> Normal Paraffin | 629-62-9          | 0 - 55%         |
| C <sub>16</sub> Normal Paraffin | 544-76-3          | 0 - 55%         |
| C <sub>17</sub> Normal Paraffin | 629-78-7          | 0 - 55%         |
| C <sub>18</sub> Normal Paraffin | 593-45-3          | 0 - 8%          |
| Paraffinic White Mineral Oil    | 8042-47-5         | 1 - 85%         |

### Section 3 — Physical and Chemical Characteristics

|                                          |                                                  |
|------------------------------------------|--------------------------------------------------|
| Boiling Point :                          | IBP = 224 — 228° C/ 435 — 546° F                 |
| Vapor pressure (mmHg):                   | N/A                                              |
| Vapor Density:                           | >5 (AIR = 1)                                     |
| Solubility in Water:                     | Negligible                                       |
| Reactivity in Water:                     | None                                             |
| Specific Gravity (H <sub>2</sub> O = 1): | <1                                               |
| Appearance and Odor:                     | Clear, water white liquid, essentially odorless. |

### Section 4 — Fire and Explosion Hazard Data

|                                     |                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Flash Point (PMCC):                 | >93° C/ 200° F                                                                                 |
| Flammable Limits in Air, % by Vol.  | Lower: 0.5% (v)<br>Upper: 7.0% (v)                                                             |
| Autoignition Temperature:           | >205 C°/ 400° F                                                                                |
| Extinguishing Media:                | Water spray, CO <sub>2</sub> , Dry Chemical, Foam                                              |
| Special Fire Fighting Procedures:   | Stop source of fuel. Shut off ignition sources. Keep exposed containers cool with water spray. |
| Unusual Fire and Explosion Hazards: | None                                                                                           |

#### National Fire Protection Association (NFPA) Hazard Identification

|         |               |             |
|---------|---------------|-------------|
| Health: | Flammability: | Reactivity: |
| 1       | 1             | 0           |

NFPA Class IIIB Combustible Liquid

## Section 5 — Reactivity Data

This product is stable and will not react violently with water.

Conditions Contributing to Instability: High Temperature

Incompatibility: Strong Oxidizers

Hazardous Decomposition Products: Oxides of carbon may be generated as products of combustion.

Hazardous Polymerization: Will not occur

## Section 6 — Health and Hazard Information

### Nature of Hazard / Signs and Symptoms of Exposure:

#### Ingestion:

Harmful: May cause lung damage if swallowed. Product has a low order of acute oral and dermal toxicity, but as with most light liquid petroleum hydrocarbons, small amounts aspirated into the lungs during ingestion or vomiting may cause pulmonary injury. May act as a laxative.

#### Inhalation:

Inhalation of mist or spray may be harmful.

#### Skin:

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation, reddening of skin progressing to dermatitis. However, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

#### Eyes:

Product contacting the eyes may cause slight eye irritation. However, when tested and evaluated according to FHSA Guidelines (16 CFR 1500.42) using albino rabbits, Hollowick Lamp Fuel "Does not demonstrate ocular irritation potential".

### First Aid / Routes of Entry:

#### Ingestion:

If swallowed, DO NOT induce vomiting. Call a physician.

#### Inhalation:

Remove to fresh air. If breathing has stopped, administer artificial respiration, and seek medical attention immediately.

If indicated, administer cardiopulmonary resuscitation.

#### Skin Contact:

Remove contaminated clothing. Launder before reuse. Wash skin with soap and water.

#### Eye Contact:

If splashed into eyes, flush with clear water for 15 minutes, or until irritation subsides. If irritation still persists, call a physician.

### Medical conditions which may be aggravated by exposure:

Sensitive skin. Skin contact may aggravate an existing dermatitis.

### Variability Among Individuals:

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

### Exposure Limits:

NIOSH — recommend TWA of 350 mg/m<sup>3</sup> (Source: Criteria Document - Refined Petroleum Solvents, July 1977)

### Toxicity Data:

This product is judged to have an acute oral LD<sub>50</sub> (rat) greater than 5 g/kg of body weight and an acute dermal LD<sub>50</sub> (rabbit) greater than 3 g/kg of body weight.

### Carcinogen Status:

Studies indicate no carcinogenic properties.

### Hazardous Materials Identification System (HMIS):

Health:  
1

Flammability:  
1

Reactivity:  
0

## Section 7 — Spill or Leak Procedures

### **Steps to be taken if material is released or spilled:**

Eliminate all ignition sources. Contain the spill. Prevent from entering sewers or drains.

### **Waste Disposal Method:**

Material may be picked up with solid sorbent and land filled, or incinerated according to local, state and federal regulations.

## Section 8 — Special Protection Information and Control Measures

### **Ventilation:**

Use only with ventilation sufficient to prevent exceeding recommended exposure limit.

### **Respiratory Protection:**

Respiratory protection is not required under conditions of normal use. Wear an organic vapor respirator with a mist filter if vapor, mist or spray is generated.

### **Protective Gloves:**

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

### **Eye Protection:**

Eye protection is not required under conditions of normal use. Use splash goggles or face shield when splashing may occur.

### **Other Protective Equipment:**

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

### **Work Practices/Engineering Controls:**

Keep containers and storage containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants.

### **Personal Hygiene:**

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse.

## Section 9 — Transportation

**Non-hazardous by DOT regulations and no specific DOT regulations apply. Not classified as hazardous under the Code of Federal Regulations (CFR) Title 49, Parts 100-177.**

### **US DOT Classification:**

This product is not regulated by DOT, and is not a hazardous material according to DOT regulations for ground transportation.

### **ICAO / IATA Description:**

Not Applicable. This product is not a dangerous good as defined by IATA for air transportation.

### **IMO Description (IMDG Code):**

Non-hazardous. This product is not a dangerous good as defined by IMO in the IMDG Code for water transportation.

### **UN Number:**

Not Applicable.

## Section 10 — U.S. Federal Regulatory Information

### OSHA Hazard Communication Standard Classification:

Non-hazardous as defined by the OSHA Hazard Communication Standard.

### TSCA inventory listing:

| <u>Component</u>                | <u>CAS Number</u> |
|---------------------------------|-------------------|
| C <sub>13</sub> Normal Paraffin | 629-50-5          |
| C <sub>14</sub> Normal Paraffin | 629-59-4          |
| C <sub>15</sub> Normal Paraffin | 629-62-9          |
| C <sub>16</sub> Normal Paraffin | 544-76-3          |
| C <sub>17</sub> Normal Paraffin | 629-78-7          |
| C <sub>18</sub> Normal Paraffin | 593-45-3          |
| Paraffinic White Mineral Oil    | 8042-47-5         |

### SARA 302 Status:

Component: Contains no chemicals subject to SARA 302 reporting.

### SARA 311/312 Classification:

Non-hazardous according to SARA 311/312.

### SARA 313 Chemicals:

Component: Contains no chemicals subject to SARA 313 reporting.

### CERCLA Hazardous Substance:

Contains no chemicals on the CERCLA Hazardous Substance list.

## Section 11 — International Regulatory Information

### Workplace Hazardous Materials Information System (WHMIS) Classification:

This material is not a controlled product as defined by Canada's Workplace Materials Information System (WHMIS).

### European Inventory of Existing Commercial Chemical Substance (EINECS) Listing:

| <u>Chemical Name</u>        | <u>CAS Number</u> | <u>EINECS Number</u> |
|-----------------------------|-------------------|----------------------|
| C <sub>13</sub> Tridecane   | 629-50-5          | 211-093-4            |
| C <sub>14</sub> Tetradecane | 629-59-4          | 211-096-0            |
| C <sub>15</sub> Pentadecane | 629-62-9          | 211-098-1            |
| C <sub>16</sub> Hexadecane  | 544-76-3          | 208-878-9            |
| C <sub>17</sub> Heptadecane | 629-78-7          | 211-108-4            |
| C <sub>18</sub> Octadecane  | 593-45-3          | 209-790-3            |
| White Mineral Oil           | 8042-47-5         | 232-455- 8           |

The information and recommendations contained herein are to the best of Hollowick's knowledge and belief, accurate and reliable as of the date issued. Hollowick does not warrant or guarantee their accuracy or reliability, and Hollowick shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for their particular use.

The Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Hollowick in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Hollowick's interpretation of the available data.