Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name: FPRM16
Contains Hexadecane

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use: Flash point testing equipment performance verification reference material
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet
Supplier:
Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232
For further information, please contact
E-mail Address: No information available.

1.4. Emergency telephone number
Emergency Telephone:
(800) 255-3924 Domestic CHEM-TEL Inc.
+1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)

Section 2. Hazards identification

2.1. Classification of the substance or mixture
REGULATION (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration Toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific Target Organ Systemic Toxicity</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Physical Hazards:
None

2.2. Label Elements

Signal Word: Danger

Hazard Statements:
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P331 - Do NOT induce vomiting

2.3. Other information
Prolonged skin contact may defat the skin and produce dermatitis. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Section 3. Composition/information on ingredients

3.1. Substances
3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexadecane</td>
<td>208-878-9</td>
<td>544-76-3</td>
<td>100</td>
<td>STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Obtain medical attention if irritation persists.

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion
Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.

Inhalation
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician
Aspiration hazard.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Carbon dioxide (CO₂). Foam. Dry powder. Water fog. Cool containers with flooding quantities of water until well after fire is out.
Extinguishing media which must not be used for safety reasons
No information available.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Sulfur oxides. Aldehydes.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

---

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up
Dike to collect large liquid spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

6.4. Reference to other sections
See Section 12 for additional information.

---

Section 7. Handling and storage

7.1. Precautions for Safe Handling
Handling
Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)
Exposure Scenario
No information available.

Other Guidelines
No information available.

---

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>The Netherlands</th>
<th>Norway</th>
<th>Poland</th>
<th>Portugal</th>
<th>Spain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexadecane</td>
<td></td>
<td>TWA: 40 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>544-76-3</td>
<td></td>
<td>TWA: 275 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

8.2. Exposure controls

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Personal protection equipment should be chosen according to the CEN standards

Eye Protection
Safety glasses with side-shields.

Skin and Body Protection
Lightweight protective clothing.

Hand Protection
Chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental Exposure Controls
No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Hydrocarbon-like</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorless</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

VOC Content (%)
No information available.

Section 10. Stability and reactivity

10.1. Reactivity
Not reactive under normal conditions.
10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Ignitions sources - heat, sparks and open flames.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides. Sulfur oxides. Aldehydes.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information
Inhalation
May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Eye Contact
Irritating to eyes.

Skin Contact
Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion
Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

Acute Toxicity
100% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexadecane</td>
<td>&gt; 5250 mg/kg (Rat) &gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit) &gt; 2000 mg/kg (Rat)</td>
<td>&gt; 5.8 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Sensitization
No information available.

Mutagenic Effects
No information available.

Carcinogenic Effects
No information available.

Reproductive Toxicity
No information available.

Developmental Toxicity
No information available.

STOT - single exposure
See listed target organs below.

STOT - repeated exposure
See listed target organs below.

Target Organ Effects
Central nervous system (CNS). Eyes. Skin. Respiratory system.

Neurological Effects
Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aspiration Hazard
May be fatal if swallowed and enters airways.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects
Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.
12.2. **Persistence and degradability**

No information available.

12.3. **Bioaccumulative potential**

No information available.

12.4. **Mobility in soil**

No information available.

12.5. **Results of PBT and vPvB assessment**

No information available.

12.6. **Other adverse effects**

This product does not contain any known or suspected endocrine disruptors.

### Section 13. Disposal considerations

13.1. **Waste treatment methods**

| Waste from Residues / Unused Products | Dispose of in accordance with local regulations. |
| Contaminated Packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. |

### Section 14. Transport information

**Note:** The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

**IMDG/IMO**

| 14.1. UN-Number | Not regulated. |
| 14.2. Proper Shipping Name | Not regulated. |
| 14.3. Hazard Class | Not regulated. |
| 14.4. Packing Group Description | Not applicable. |
| 14.5. Marine Pollutant | None |
| 14.6. Special Provisions | None |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available. |

**RID**

| 14.1. UN-Number | Not regulated. |
| 14.2. Proper Shipping Name | Not regulated. |
| 14.3. Hazard Class | Not regulated. |
| 14.4. Packing Group Description | Not applicable. |
| 14.5. Environmental hazard | None |
| 14.6. Special Provisions | None |

**ADR**

| 14.1. UN-Number | Not regulated. |
| 14.2. Proper Shipping Name | Not regulated. |
14.3. Hazard Class  Not regulated.
   Description  Not applicable.
14.5. Environmental hazard  None
14.6. Special Provisions  None

ICAO
14.1. UN-Number  Not regulated.
14.2. Proper shipping name  Not regulated.
14.3. Hazard Class  Not regulated.
   Description  Not applicable.
14.5. Environmental hazard  None
14.6. Special Provisions  None

IATA
14.1. UN-Number  Not regulated.
14.2. Proper Shipping Name  Not regulated.
14.3. Hazard Class  Not regulated.
   Description  Not applicable.
14.5. Environmental hazard  None
14.6. Special Provisions  None

Section 15. Regulatory information

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

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
</tbody>
</table>

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3
H336 - May cause drowsiness or dizziness
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Key literature references and sources for data
www.ChemADVISOR.com/

Issuing Date 24-Apr-2014

General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet