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

1.1. Product identifier
Product Name
FPRM10
Contains Decane

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 Number
(800) 255-3924 Domestic CHEM-TEL Inc.
+1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)
Europe
112

Section 2. Hazards identification

2.1. Classification of the substance or mixture
REGULATION (EC) No 1272/2008
Aspiration Toxicity
Category 1
Acute Inhalation Toxicity - Vapors
Category 4
Skin Corrosion/Irritation
Category 2
Serious Eye Damage/Eye Irritation
Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)
Category 3

Physical Hazards
Flammable liquids
Category 3

2.2. Label Elements

![Label elements](image-url)
Signal Word

Danger

Hazard Statements
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H322 - Harmful if inhaled
H334 - May cause drowsiness or dizziness
H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P370 + P378 - In case of fire: Use CO2, dry chemical, or foam for extinction.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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>Decane</td>
<td>204-686-4</td>
<td>124-18-5</td>
<td>100</td>
<td>STOT SE 3 (H336)</td>
<td>No data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1 (H304)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2 (H315)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 (H319)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (H332)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flam Liq. 3 (H226)</td>
<td></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**

Water spray. Carbon dioxide (CO\(_2\)). Foam. Dry powder.

**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.

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**

Remove all sources of ignition. 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
Keep away from open flames, hot surfaces and sources of ignition. 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. Keep away from open flames, hot surfaces and sources of ignition.

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>EU</th>
<th>Austria</th>
<th>Belgium</th>
<th>Cyprus</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decane 124-18-5</td>
<td>TWA: 45 ppm</td>
<td>TWA: 250 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decane 124-18-5</td>
<td>STEL: 1500 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decane 124-18-5</td>
<td>STEL: 250 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decane 124-18-5</td>
<td>STEL: 275 mg/m³</td>
<td></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. If splashes are likely to occur, wear: Goggles.

Skin and Body Protection
Impervious 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.

Hand Protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>-27.9 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>174 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>46 °C</td>
<td>Closed cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available 0.73</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Soluble in solvents</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>6</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1.2 cSt @ 20°C</td>
<td>None known</td>
</tr>
</tbody>
</table>

**9.2. Other information**

- Vapor Pressure: No information available
- Vapor Density: No information available
- Relative Density: No information available
- Water Solubility: No information available
- Solubility in other solvents: No information available
- Partition coefficient: n-octanol/water: No information available
- Autoignition Temperature: No information available
- Decomposition Temperature: No information available
- Viscosity: 1.2 cSt @ 20°C

**Explosive Properties**

- No information available

**Oxidizing Properties**

- No information available

#### 9.3. 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

Strong acids. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon oxides.

---

### Section 11. Toxicological information

#### 11.1. Information on toxicological effects

Acute Toxicity
Product Information

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

Eye Contact
Expected to be an irritant based on components.

Skin Contact
Expected to be an irritant based on components. 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
0% of the mixture consists of ingredient(s) of unknown toxicity.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decane</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>&gt; 1369 ppm (Rat) 8 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
May cause drowsiness or dizziness.

STOT - repeated exposure
See listed target organs below.

Target Organ Effects

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
Harmful to aquatic organisms.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decane</td>
<td>EC50 24 h: = 0.043 mg/L (Chlorella vulgaris)</td>
<td></td>
<td></td>
<td>EC50 48 h: = 18 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Expected to be biodegradable

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decane</td>
<td>5.1</td>
</tr>
</tbody>
</table>
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 UN2247
14.2. Proper Shipping Name n-Decane
14.3. Hazard Class 3
14.4. Packing Group III
Description UN2247, n-Decane, 3, III, (44°C c.c.)
14.5. Marine Pollutant None
14.6. Special Provisions None
EmS No. F-E, S-E
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 UN2247
14.2. Proper Shipping Name n-Decane
14.3. Hazard Class 3
14.4. Packing Group III
Description UN2247, n-Decane, 3, III
14.5. Environmental hazard None
14.6. Special Provisions None
Classification Code F1

ADR

14.1. UN-Number UN2247
14.2. Proper Shipping Name n-Decane
14.3. Hazard Class 3
ADR/RID-Labels 3
14.4. Packing Group III
Description UN2247, n-Decane, 3, III, (D/E)
14.5. Environmental hazard None
14.6. Special Provisions None
Classification Code F1

ICAO
14.1. UN-Number UN2247
14.2. Proper shipping name n-Decane
14.3. Hazard Class 3
14.4. Packing Group III
Description UN2247, n-Decane, 3, III
14.5. Environmental hazard None
14.6. Special Provisions None

IATA
14.1. UN-Number UN2247
14.2. Proper Shipping Name n-Decane
14.3. Hazard Class 3
14.4. Packing Group III
Description UN2247, n-Decane, 3, III
14.5. Environmental hazard None
14.6. Special Provisions None
ERG Code 3L

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 - Australia 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
H332 - Harmful if inhaled
H226 - Flammable liquid and vapor
H315 - Causes skin irritation
H319 - Causes serious eye irritation

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

Issuing Date 24-Apr-2014
Revision Date 29-Aug-2017
Revision Note (M)SDS sections updated: 3, 8.


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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