SAFETY DATA SHEET

Issuing Date 24-Apr-2014  Revision Date 29-Aug-2017  Revision Number 1

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

1.1. Product identifier
Product Name FPRM14
Contains Tetradecane

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.
Number +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
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2

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
Precautionary Statements - EU (§28, 1272/2008)
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
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

2.3. Other information.
Prolonged skin contact may defat the skin and produce dermatitis

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### 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>Tetradecane</td>
<td>211-096-0</td>
<td>629-59-4</td>
<td>100</td>
<td>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

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### Section 4. First aid measures

#### 4.1. Description of first-aid measures

**Eye Contact**
Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention if irritation persists.

**Skin Contact**
Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur.

**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: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

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

**Most Important Symptoms/Effects**
Irritation.

#### 4.3. Indication of immediate medical attention and special treatment needed

**Notes to Physician**
Treat symptomatically.

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### Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Media**
Carbon dioxide (CO₂). Foam. Dry chemical. 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.

6.3. Methods and materials for containment and cleaning up
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
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

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>The Netherlands</th>
<th>Norway</th>
<th>Poland</th>
<th>Portugal</th>
<th>Spain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetradecane</td>
<td></td>
<td>TWA: 40 ppm</td>
<td>TWA: 275 mg/m³</td>
<td>STEL: 40 ppm</td>
<td>STEL: 275 mg/m³</td>
</tr>
<tr>
<td>629-59-4</td>
<td></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.
8.2. Exposure controls

**Engineering Measures**
Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**
- **Eye Protection**: Safety glasses with side-shields.
- **Skin and Body Protection**: Long sleeved 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**
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>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>5 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>253 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>99 °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 0.76</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>No data available</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>3 cSt @ 20°C</td>
<td>None known</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
Keep away from open flames, hot surfaces and sources of ignition.
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 of mist may cause irritation to the respiratory system.

**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.

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>Tetradecane</td>
<td>99,999.00  mg/kg</td>
<td>99,999.00  mg/kg</td>
<td>&gt; 5000 mg/kg (Rat)</td>
</tr>
</tbody>
</table>

**Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenic Effects**

Contains no ingredient listed as a carcinogen

**Reproductive Toxicity**

No information available.

**Developmental Toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Target Organ Effects**

Skin. Eyes. Respiratory system.

**Aspiration Hazard**

May be fatal if swallowed and enters airways.

### Section 12. Ecological information

#### 12.1. Toxicity

**Ecotoxicity Effects**

The environmental impact of this product has not been fully investigated.

<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>Tetradecane</td>
<td>EC50 24 h: = 0.026 mg/L (Chlorella vulgaris)</td>
<td></td>
<td></td>
<td>EC50 48 h: = 0.02856 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

Readily biodegradable.

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
</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
Not regulated.
14.2. Proper Shipping Name
Not regulated.
14.3. Hazard Class
Not regulated.
14.4. Packing Group
Not regulated.
14.5. Marine Pollutant
None
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
Not regulated.
14.5. Environmental hazard
None
None

ADR
14.1. UN-Number
Not regulated.
14.2. Proper Shipping Name
Not regulated.
14.3. Hazard Class
Not regulated.
14.4. Packing Group
Not regulated.
14.5. Environmental hazard
None
None

ICAO
14.1. UN-Number
Not regulated.
14.2. Proper shipping name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Not regulated.

14.5. Environmental hazard
None

None

IATA

14.1. UN-Number
Not regulated.

14.2. Proper Shipping Name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Not regulated.

14.5. Environmental hazard
None

None

Section 15. Regulatory information

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

International Inventories

TSCA
EINECS/ELINCS -
Complies
DSL/NDSL -
Complies
PICCS - Complies
ENCS - Complies
IECSC - Complies
AICS - Complies
KECL - Complies

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


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