

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

Issuing Date 24-Apr-2014	Revision Date 17-Nov-2023	Revision Number 1
SECTION 1: Identifica	tion of the substance/mixture and of the	company/undertaking
1.1. Product identifier		
Product Name	FPRM2D	
Synonyms	None	
Pure substance/mixture	Substance	
1.2. Relevant identified uses	of the substance or mixture and uses advised against	<u>i                                     </u>
Recommended use	Flash point testing equipment performance verific	cation reference material
Uses advised against	None known	
1.3. Details of the supplier of	the safety data sheet	
<b>Supplier</b> Cannon Instrument Company 2139 High Tech Rd. State College, PA 16803-1733 T: (814) 353-8000 or (800) 676	-6232	
For further information, pleas		
E-mail address	sales@cannoninstrument.com	
1.4. Emergency telephone nu	mber	
Emergency telephone	+1 (800) 255-3924 Domestic CHEM-TEL Inc. +1 (813) 248-0585 Overseas CHEM-TEL Inc. (Ple	ease Call Collect)
Emergency telephone - §45		
Europe	112	
SECTION 2: Hazards i	dentification	
2.1. Classification of the subs Classification according to R	egulation (EC) No. 1272/2008 [CLP]	Category (1 - (H332))

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Aspiration hazard	Category 1 - (H304)

# 2.2. Label elements

Contains 1-Decene, dimer, hydrogenated



Signal word

Danger

## **Hazard statements**

H304 - May be fatal if swallowed and enters airways. H332 - Harmful if inhaled.

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

P261 - Avoid breathing vapors or mists.

- P271 Use only outdoors or in a well-ventilated area.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P331 - Do NOT induce vomiting.

P501 - Dispose of contents/ container to an approved waste disposal plant.

#### Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

May be harmful in contact with skin.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
1-Decene, dimer, hydrogenated 68649-11-6	100	No data available	No information available	Acute Tox. 4 (H332) Asp. Tox. 1 (H304)	-	-	-

#### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapour - mg/L	hour - gas - ppm
			mg/L		
1-Decene, dimer,	No data available	3000	0.9	No data available	No data available
hydrogenated			1.4		
68649-11-6					

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No.

1907/2006 (REACH), Article 59)

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.
Skin contact	Wash skin with soap and water. Get medical attention if symptoms occur.
Ingestion	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid breathing vapours or mists. See section 8 for more information.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness.
Effects of Exposure	See Section 11 for additional Toxicological Information.
4.3. Indication of any immediate me	edical attention and special treatment needed
Note to doctors	Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known based on information supplied.
5.2. Special hazards arising from the	e substance or mixture
Specific hazards arising from the chemical	None known based on information supplied.
Hazardous combustion products	Carbon oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.				
SECTION 6: Accidental rel	SECTION 6: Accidental release measures				
6.1. Personal precautions, protectiv	ve equipment and emergency procedures				
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid breathing vapours or mists.				
Other information	Refer to protective measures listed in Sections 7 and 8.				
For emergency responders	Use personal protection recommended in Section 8.				
6.2. Environmental precautions					
Environmental precautions	See Section 12 for additional Ecological Information.				
6.3. Methods and material for conta	inment and cleaning up				
Methods for containment	Prevent further leakage or spillage if safe to do so.				
Methods for cleaning up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.				
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.				
6.4. Reference to other sections					
Reference to other sections	See section 8 for more information See section 13 for more information				
SECTION 7: Handling and	storage				
7.1. Precautions for safe handling	-				
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapours or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.				
General hygiene considerations	Do not eat, drink or smoke when using this product.				
7.2. Conditions for safe storage, inc	cluding any incompatibilities				
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from other materials.				
Storage class (TRGS 510)	LGK 10.				
7.3. Specific end use(s)					
Specific use(s)	The identified uses for this product are detailed in Section 1.2.				
SECTION 8: Exposure con	trols/personal protection				
8.1. Control parameters					

# Exposure Limits

Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary

1-Decene, dimer,	-	-	TWA: 5 mg/m <sup>3</sup>	-	-
hydrogenated			Peak: 20 mg/m <sup>3</sup>		
68649-11-6					

## **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 (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
1-Decene, dimer, hydrogenated 68649-11-6	-	-	60 mg/m³ [4] [7]

# Notes

[4]	Systemic health effects.
[7]	Short term.

# Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
1-Decene, dimer, hydrogenated 68649-11-6	-	-	50 mg/m³ [4] [7]

## Notes

[4]	Systemic health effects.
[7]	Short term.

8.2. Exposure controls		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.	
Hand protection	Wear suitable gloves. Gloves must conform to standard EN 374.	
Skin and body protection	Wear suitable protective clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Do not eat, drink or smoke when using this product.	
Environmental exposure controls	No information available.	

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties Appearance

Physical state Colour Odour Odour threshold	Liquid Colourless Faint hydrocarbon No information available	
<u>Property</u> Melting point / freezing point Initial boiling point and boiling rang Flammability Flammability Limit in Air Upper flammability or explosive limits	<u>Values</u> je	Remarks • Method No data available No data available No data available No data available
Lower flammability or explosive limits		No data available
Flash point Autoignition temperature Decomposition temperature pH pH (as aqueous solution) Kinematic viscosity Dynamic viscosity Water solubility Solubility(ies) Partition coefficient	160 °C 5 cSt Insoluble in water Soluble in solvents > 6.5	CC (closed cup) No data available No data available No data available No data available @ 40 °C No data available
Vapour pressure Relative density Bulk density Liquid Density Relative vapour density Particle characteristics Particle Size Particle Size Distribution	0.80	No data available @15°C No data available No data available No data available No data available No data available

# 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

Reactivity

None under normal use conditions.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

# 10.4. Conditions to avoid

Conditions to avoid Incompatible materials.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Information on likely routes of exposure

# Product Information

Inhalation	Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation.	
Eye contact	Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.	
Skin contact	Repeated exposure may cause skin dryness or cracking. May be harmful in contact with skin.	
Ingestion	Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.	
Symptoms related to the physical, chemical and toxicological characteristics		

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Acute toxicity Harmful by inhalation.

# Numerical measures of toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Decene, dimer, hydrogenated	-	> 3000 mg/kg (Rabbit)	= 0.9 mg/L (Rat)4 h
			= 1.4 mg/L (Rat)4 h

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.

Reproductive toxicity	Based on available data, the classification criteria are not met.		
STOT - single exposure	Based on available data, the classification criteria are not met.		
STOT - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
11.2. Information on other hazards	<u>S</u>		
11.2.1. Endocrine disrupting properties			
Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors.		
11.2.2 Other information			
11.2.2. Other information			
Other adverse effects	No information available.		
SECTION 12: Ecological ir	nformation		
12.1. Toxicity			
Ecotoxicity	The environmental impact of this product has not been fully investigated.		
12.2. Persistence and degradability	,		
Persistence and degradability			
12.3. Bioaccumulative potential			
Bioaccumulation			
Component Information Chemical na	me Partition coefficient		
1-Decene, dimer, hy			
12.4. Mobility in soil			
Mobility in soil	in soil No information available.		
12.5. Results of PBT and vPvB assessment			
PBT and vPvB assessment			
Chemical	I name PBT and vPvB assessment		
	1-Decene, dimer, hydrogenated The substance is not PBT / vPvB		
68649			

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

# 12.7. Other adverse effects

Other adverse effects No information available.

# SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	
Waste codes / waste designations according to EWC / AVV	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.	

# **SECTION 14: Transport information**

Note:	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.
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special Precautions for Users Special Provisions14.7Maritime transport in bulk according to IMO instruments	Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable None No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special Precautions for Users Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special Precautions for Users Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable None
IATA 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special Precautions for Users Special Provisions Note:	Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable None

# **SECTION 15: Regulatory information**

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

#### National regulations

#### Germany

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

## Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories Contact supplier for inventory compliance status

#### 15.2. Chemical safety assessment

**Chemical Safety Report** 

No information available

# SECTION 16: Other information

# Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H304 - May be fatal if swallowed and enters airways H332 - Harmful if inhaled

#### Legend

SVHC: Substances of Very High Concern for Authorisation: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration LD50: 50% Lethal Dose

#### Legend Section 8: Exposure controls/personal protection

TWA Ceiling SCBA	TWA (time-weighted average) Maximum limit value Self-contained breathing apparatus	STEL Sk*	STEL (Short Term Exposure Limit) Skin designation	
Classification proc	cedure			
Classification acc	ording to Regulation (EC) No. 1272/2008 [CLP	']	Method Used	
Acute oral toxicity			Calculation method	
Acute dermal toxic	city		Calculation method	
Acute inhalation to	oxicity - gas		Calculation method	
Acute inhalation to	oxicity - vapour		Calculation method	
Acute inhalation to	oxicity - dust/mist		Calculation method	
Skin corrosion/irrit	ation		Calculation method	
Serious eye dama	Serious eye damage/eye irritation		Calculation method	
Respiratory sensitisation		Calculation method		

Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) European Chemicals Agency (ECHA) (ECHA\_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization **Issuing Date** 24-Apr-2014 17-Nov-2023 **Revision Date** 

Revision Note REACH Annex II Update.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet