

# Safety Data Sheet

## According to Regulation (EC) No. 1907/2006 (REACH)

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Trade name : **Fluorinated Fomblin FM 090**  
Part number : **214-239**

Revision date : 20.04.2021  
Date of print : 20.04.2021  
Version : 1.2.0

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### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

Fluorinated Fomblin FM 090 / ULTRATHERM 2000 MF 10

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against relevant identified uses

##### Product categories [PC]

PC24 – Lubricants, greases, release products

#### 1.3 Details of the supplier of the safety data sheet

Supplier: INFICON AG  
Street: Alte Landstrasse 6  
Postal code/city: LI-9496 Balzers  
Phone: 00423 / 388 3111  
E-Mail: [reach.liechtenstein@inficon.com](mailto:reach.liechtenstein@inficon.com)

#### 1.4 Emergency Telephone Number (worldwide)

Tox Info Suisse +41 44 251 51 51 (24 hours)

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

#### 2.2 Label elements

None

#### 2.3 Other hazards

None

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### 3 Composition/information on ingredients

#### 3.1 Mixtures

##### Hazardous ingredients

None

##### Further ingredients

PFPE oil (Perfluoropolyethers),

PTFE powder (Polytetrafluoroethylen),

Molybdenum disulphide; EC No. : 215-263-9, CAS No.:1317-33-5

### 4 First aid measures

#### 4.1 Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice

##### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact

Change contaminated, saturated clothing. Wash immediately with; Water and soap. In case of skin irritation, consult a physician

##### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist

##### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No information available

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

None

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### 5 Firefighting measures

The product itself does not burn. Reactions with combustible materials possible

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). ABC-powder, BC-powder, Foam. Dry sand

##### Unsuitable extinguishing media

Water, Strong water jet, High power water jet

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

Gases/vapours, corrosive. Very toxic by inhalation. Pyrolysis products, toxic, containing fluorine. Hydrogen fluoride. Sulphur dioxide (SO<sub>2</sub>)

#### 5.3 Advice for firefighters

Use suitable breathing apparatus

##### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus

#### 5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains

### 6 Accidental release measures

Special danger of slipping by leaking/spilling product. Keep away from sources of ignition. – No smoking!

#### 6.1 Personal precautions, protective equipment and emergency procedures

None

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

#### 6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up; Universal binder, Kieselguhr.

#### 6.4 Reference to other sections

None

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### 7 Handling and storage



#### 7.1 Precautions for safe handling

It is recommended to design all work processes always so that the following is excluded:  
Generation/formation of mist. Avoid: Inhalation of vapours or spray/mists Skin contact Eye contact. When using do not eat, drink, smoke, sniff.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Hints on joint storage

Storage class: 13

Storage class (TRGS 510): 13

##### Keep away from

Food and feedingstuffs

##### Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against Humidity. Dust deposits

#### 7.3 Specific end use(s)

None

### 8 Exposure controls/personal protection

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Separate storage of work clothes. Take the precautions customary when handling chemicals

#### 8.1 Control parameters

None

#### 8.2 Exposure controls

##### Personal protection equipment

##### Eye / face protection

None, if handled according to order. Eye protection: not required. Avoid: Eye contact.

##### Recommended eye protection articles

DIN EN 166

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**Skin protection****Hand protection**

Hand protection is not required

**By long-term hand contact**

Wear suitable gloves

**Suitable material**

PE (Polyethylene), NR (natural rubber, natural latex), NBR (Nitrile rubber), BR (Butyl caoutchouc, butyl rubber)

**Breakthrough time (maximum wearing time) :**

PE > 480 min, NR > 480 min, CR > 480 min, NBR > 480 min, BR > 480 min

**Thickness of the glove material**

min. 0.38 mm

**Recommended glove articles:**

EN ISO 374, DIN EN 420 Uvex, KCL, MAPA or comparable articles from other companies.

**Respiratory protection**

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour**

black

**Safety relevant basis data**

Physical state:			pasty
Initial boiling point and boiling range:	(1013 hPa)	>	330 °C
Decomposition temperature:	(1013 hPa)	>	290 °C
Flash point:	(1013 hPa)		none
Vapour pressure:	(50°C)	<<	0.01 hPa
Density:	(20°C)	=	1.99 g/cm <sup>3</sup>

### 9.2 Other information

None

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### 10 Stability and reactivity

#### 10.1 Reactivity

No information available

#### 10.2 Chemical stability

The product is stable

#### 10.3 Possibility of hazardous reactions

Alkali metals, Alkaline earth metal, Powdered metals, Light metals, Aluminium, Titanium, Lewis-acid.

#### 10.4 Conditions to avoid

Thermal decomposition can lead to the release of toxic and corrosive gases.

#### 10.5 Incompatible materials

No information available

#### 10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide, Pyrolysis products, toxic, containing fluorine. Hydrogen fluoride. Sulphur dioxide (SO<sub>2</sub>)

### 11 Toxicological information

This products is unlikely to harm health, given normal and proper handling and hygenic precautions

#### 11.1 Information on toxicological effects

By analogy

##### Acute effects

##### Acute oral toxicity

Parameter: LD50  
Exposure route: Oral  
Species: Rat  
Effective dose: > 5000 mg/kg

##### Acute inhalation toxicity

Parameter: LD50  
Exposure route: Dermal  
Secies: Rabbit  
Effective dose: > 5000 mg/kg

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### 12 Ecological information

Discharge into the environment must be avoided

#### 12.1 Toxicity

By analogy

##### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter: LC50

Species: Pimephales promelas (fathead minnow)

Effective dose: = 1250 mg/l

Exposure time: 96 h

#### 12.2 Persistence and degradability

##### Biodegradation

Overall evaluation on the mixture: The product is difficult to biologically degrade.

#### 12.3 Bioaccumulative potential

No information available

#### 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6 Other adverse effects

No information available

#### 12.7 Additional exotoxicological information

##### Additional information

**According to its formulation, the product contains the following substances:**

Molybdenum compounds, insoluble

#### 12.8 Overall evaluation

If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable

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### 13 Disposal considerations

Dispose according to legislation. The allocation of waste identity/numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

### 14 Transport information

#### 14.1 UN number

No dangerous goods in sense of these transport regulations

#### 14.2 UN proper shipping name

No dangerous goods in sense of these transport regulations

#### 14.3 Transport hazard class(es)

No dangerous goods in sense of these transport regulations

#### 14.4 Packing group

No dangerous goods in sense of these transport regulations

#### 14.5 Environmental hazards

No dangerous goods in sense of these transport regulations

#### 14.6 Special precautions for user

None

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No transport as bulk according to IBC Code



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### 15 Regulatory Information

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

##### National regulations

##### Restrictions of occupation

Not relevant

##### Störfallverordnung

Not subject to StörfallVO

##### Water hazard class (WGK)

Class: 1 (Slightly hazardous to water) Classification according to AwSV

##### Other regulations, restrictions and prohibition regulations

##### Switzerland

##### VOCV Regulation

Volatile organic compounds (VOC) content in percent by weight: 0 %

##### Additional information

##### TSCA (Toxic Substances Control Act) – USA, United States of America

All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances.

##### California Proposition 65 – State of California

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65

#### 15.2 Chemical safety assessment

No information available

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### 16 Other informations

#### 16.1 Indication of changes

15. National regulations

#### 16.2 Abbreviations and acronyms

None

#### 16.3 Key literature references and sources for data

None

#### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272 / 2008 [CPL]

The statement is derived from the properties of the single components.

#### 16.5 Relevant H- and EUH-phrases (Number and full text)

None

#### 16.6 Training advice

None

#### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on the safety data sheet is not necessarily valid for the new made-up material.

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