

# Safety Data Sheet

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

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Trade name : **Fluorinated Fomblin oil, OL 090**  
Part number : **214-240**

Revision date : 30.01.2014  
Date of print : 10.10.2016  
Version : 1.0.0

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

#### 1.1 Product Identifier

Fluorinated Fomblin oil, OL 090 / ULTRATHERMOIL

#### 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 Directive 67/548/EEC or 1999/45/EC

None

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)

### 4 First aid measures

#### 4.1 Description of first aid measures

##### General information

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

##### After inhalation

Take the casualty into the fresh air and keep warm. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact

Remove contaminated, saturated clothing immediately. Wash away with soap and water and rinse. In case of skin irritation, consult a physician.

##### After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Rinse mouth thoroughly with water. When in doubt or if symptoms are observed, get medical advice.

#### 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

Foam. Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Water mist Water spray jet

##### 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. T+ - very toxic Pyrolysis products, toxic, containing fluorine, Hydrogen fluoride

#### 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

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

##### Hints on joint storage

Storage class: 12

Storage class (TRGS 510): 12

##### Keep away from

Food and feedingstuffs

##### Further information on storage conditions

Keep/Store only in original container, Keep container tightly closed. Protect against 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. 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: NBR (Nitrile rubber). Butyl caoutchouc (butyl rubber)

Recommended glove articles: DIN EN 374 DIN EN 420

### Respiratory protection

None, but avoid breathing vapours if possible

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Colour

colourless

#### Safety relevant basis data

Physical state:	liquid
Boiling temperature / range:	( 1013 hPa ) > 300°C
Decomposition temperature:	( 1013 hPa ) > 290°C
Flash point:	( 1013 hPa ) ... none
Vapour pressure:	(50°C ) << 0.01 hPa
Density:	( 20°C ) = 1.85 g/cm <sup>3</sup>
Viscosity:	( 40 °C ) = 160 mm <sup>2</sup> /s
Viscosity:	( 100 °C ) = 50 mm <sup>2</sup> /s

### 9.2 Other information

None

## 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. Metal powder

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### 10.4 Conditions to avoid

No information available

### 10.5 Incompatible materials

No information available

### 10.6 Hazardous decomposition products

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

## 11 Toxicological information

This product is unlikely to harm health, given normal and proper handling and hygienic precautions

### 11.1 Information on toxicological effects

By analogy

#### Acute effects

##### Acute oral toxicity

Parameter: max. tolerant dose

Exposure route: Oral

Species: Rat

Effective dose: > 25000 mg/kg

##### Acute inhalation toxicity

Parameter: LC<sub>0</sub>

Exposure route: Inhalation

Species: Rat

Effective dose: >2000 mg/kg

Exposure time: 4h

## 12 Ecological information

Do not allow uncontrolled discharge of product into the environment

### 12.1 Toxicity

No information available

### 12.2 Persistence and degradability

#### Biodegradation

The product is difficult to biologically degrade

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### 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

No information available

### 12.7 Further ecological information

None

### 12.8 Overall evaluation

In accordance with the required stability the product is poorly biodegradable

## 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 this transport regulation

### 14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation

### 14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation

### 14.4 Packing group

No dangerous goods in sense of this transport regulation

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### 14.5 Environmental hazards

No dangerous goods in sense of this transport regulation

### 14.6 Special precautions for user

None

## 15 Regulatory Information

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

**National regulations**

**Water hazard class (WGK)**

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

### 15.2 Chemical safety assessment

No information available

## 16 Other informations

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

None

### 16.4 Relevant R-, H- and EUH-phrases (Number and full text)

None

### 16.5 Training advice

None

### 16.6 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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