



**COMPUOND NAME: FOMBLIN<sup>®</sup> Y LVAC**

**COMPANY IDENTIFICATION**

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**1) COMPOUND IDENTIFICATION**

Compound Name: **FOMBLIN<sup>®</sup> Y**  
 Grades: L VAC 06/6, L VAC 14/6, L VAC 16/6, L VAC 25/6  
 Chemical Name: Perfluoropolyethers  
 Molecular Weight: 1800 - 3300 g / mol  
 Structural Formula:  $CF_3 - (O - CF - CF_2)_n - (O - CF_2)_m - O - CF_3$   
 $\quad \quad \quad |$   
 $\quad \quad \quad CF_3$   
 CAS Name: 1 - Propene, 1,1,2,3,3,3 - hexafluoro -, oxidized, polymd.  
 CAS Number: 69991 - 67 - 9  
 EEC Number: exempted  
 EINECS Number: not assigned  
 ELINCS Number: not assigned

**2) COMPOSITION / INFORMATION ON INGREDIENTS**

**Composition of the preparation**

*Substances with established exposure limits or classifiable as dangerous according to EC Directive 67/548 and following amendments in concentration equal or higher than that reported in EC Directive 88/379 item 3 sect. 6*

Name	Conc.	CAS N°	Symbol	Risk Phrases
none				

**3) HAZARDS IDENTIFICATION**

**Adverse Effects for the Human Health**

The product, when properly handled, according to the good working and hygienic practices, is not dangerous for the human health.

**Environmental effects**

The product, when properly handled, according to the good working and hygienic practices, is not dangerous for the environment.

**Specific hazards**

Harmful effects for health and environment may occur in case of thermal decomposition, due to heating or fire, for the emission of toxic and corrosive gases.



#### **4) MEDICAL INFORMATION – FIRST AID**

##### **Symptomatology following Exposure**

**Eye contact** Redness  
**Skin contact** Redness  
**Ingestion** Abdominal pain, nausea, vomit.

##### **First Aid Measures**

###### **Eye contact**

Wash with plenty of water for at least 15 minutes.

###### **Skin contact**

Wash with water and soap.

###### **Ingestion**

Give some glasses of water to drink. Induce vomiting. Seek medical advice in case of persistent pain.

#### **5) FIRE FIGHTING MEASURES**

##### **Specific Hazards**

The product is not flammable and not explosive. The heating of the product may cause decomposition with emission of toxic and corrosive vapours.

##### **Specific methods**

Stay upwind and at safety distance from flames. In case of surrounding fire, remove the containers, when possible to do so in safe conditions. In case of fire keep containers cool by spraying with water.

##### **Extinguishing Media**

Water, powders, foams, chemicals, CO<sub>2</sub>.

##### **Protection of fire-fighters**

Self-contained breathing apparatus. Protective clothing for skin and eyes against corrosive vapours.

#### **6) ACCIDENTAL RELEASE MEASURES**

##### **Personal precautions**

Stop the release as soon as possible, in safe conditions. Avoid the contact of the released product with glowing surfaces and flames. Possible risk only in case of thermal decomposition of the released product.

##### **Environmental Precautions**

Avoid the discharge of the released product in sewage systems, in surface and underground waters, in the soil.

##### **Methods for cleaning up**

Absorb the released liquid with earth, sand and sawdust and collect it in suitable containers for disposal.



## 7) HANDLING AND STORAGE MEASURES

### Handling                      Precautions

Avoid heating the product above its decomposition temperature (290 °C).

### Technical measures

Provide working areas with adequate ventilation systems and with water-wash facilities (eye-bath and emergency showers).

### Storage                              Storage conditions

Keep away from heat sources. Keep away from combustible and explosive materials. Keep away from incompatible substances (see section 10).

### Packaging

Product usually storage in polyethylene containers.

**Recommended materials:**              Metal, plastic, glass.

### Non suitable materials

Not lined metals are unsuitable because of slow corrosion.

## 8) EXPOSURE CONTROL / PERSONAL PROTECTION

### Exposure Limits

Only threshold limits (ACGIH 2002) of by - products from thermal decomposition are available:

**HF**              TLV / CEILING              = 2,6 mg / m<sup>3</sup> = 3 ppm

**COF<sub>2</sub>**              TLV / STEL                              = 13,5 mg / m<sup>3</sup> = 5 ppm

### Personal Protective Equipment

#### Respiratory protection

Not necessary in normal use, self - contained breathing apparatus in case of fire.

**Eye protection**                              Safety goggles

**Hand protection**                              Rubber gloves

**Skin and Body protection**              Worksuit or rubber apron

**Hygiene measures**                              Do not drink, eat and smoke during handling.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Colour:	colourless
Odour:	odourless
Melting point:	not available
Boiling Point:	> 270 °C at 760 mmHg
Flashpoint:	not flammable
Explosion properties:	not explosive
Oxidizing properties:	not oxidizer
Vapour pressure:	10 <sup>-5</sup> – 10 <sup>-7</sup> mmHg at 20 °C
Kinematic viscosity:	50 – 300 cSt
Density:	1,88 - 1,90 g / ml    at 20 °C
Solubility in Water:	not soluble
Solubility in org. Solvents:	soluble in fluorinated solvents



## 10) STABILITY AND REACTIVITY

### Stability

The product is stable in normal conditions of use and storage.

### Conditions to avoid

Avoid heating the product above 290 °C. Avoid contact with flames.

### Materials to avoid

Strong alkaline compounds (alkaline hydroxides, ammonia, non aqueous alkalis). Lewis acids ( $AlCl_3$ ,  $SbF_5$ ,  $CoF_3$ ) above 100 °C. Powdered magnesium, aluminium and their alloys above 100 °C

### Hazardous decomposition products

The product may decompose at temperature above 290 °C with emission of HF and  $COF_2$ , which are toxic and corrosive gases; metals promote the decomposition.

## 11) TOXICOLOGICAL INFORMATION

### Penetrations Routes

Contact or ingestion of the liquid product. Inhalation of gases from thermal decomposition.

### Adverse Effects for the Human Health

*Delayed and/or immediate effects after short and/or prolonged exposure:*

**Acute toxicity** no known effect

### Local effects / irritation

Not irritant; decomposition products may cause severe irritation to skin, power eye and mucosae.

**Sensitization** no known effect

**Chronic Toxicity** no known effect

**Carcinogenicity** no known effect

**Mutagenicity** no known effect

**Reproduction toxicity** no known effect

### Experimental toxicological data

LD <sub>50</sub>	oral	> 2000 mg / Kg	Species: rat
NOEL	oral	1000 mg / Kg / day / (28d)	Species: rat
LD <sub>50</sub>	dermal	< 2000 mg / Kg	Species: rat
Irritation	skin	non irritant	Species: rabbit
	eye	non irritant	Species: rabbit
Sensitisation	skin	non sensitising	Species: Guinea pig
Mutagenicity	Ames test	negative ( <i>in vitro and in vivo</i> )	Species: ---



## 12) ECOTOXICOLOGICAL INFORMATION

### Environmental effects

**Mobility** no available data

**Persistence / degradability** no available data

**Bioaccumulation** no available data

**Ecostability data** no available data

### Ecotoxicity data

LC<sub>50</sub> fish > max. solubility of product in water Species: Rainbow trout

EC<sub>50</sub> crustaceans > max. solubility of product in water Species: Daphnia magna

EC<sub>50</sub> bacteria > max. solubility of product in water Species: ----

### EVALUATION

Use the product according to the good working practice, avoiding polluting the environment

## 13) DISPOSAL CONSIDERATIONS

### Waste treatment

Send the waste product to thermal destruction, using high-temperature incinerators designed to burn fluorine compounds.

### Packaging treatment

Reuse, when possible, the containers, after thorough washing. Send the waste containers to authorized landfills, according to local laws and regulations.

## 14) TRANSPORT INFORMATION

### Specific Hazards

Product not dangerous for transportation.

### Packaging information

Product usually shipped in polyethylene containers of different capacities (drums, jerricans, tanks).

### International Transport classification

U.N. Number not assigned

Packaging group not assigned

Road Transportation (ADR) not classified

Rail Transportation (RID / RMP) not classified

Sea Transportation (IMDG / IMO) not classified

Air Transportation (ICAO / IATA) not classified

## 15) REGULATORY INFORMATION

### CEE Regulations (Directive 67 / 548 and following amendments)

#### Classification

Classification type not required

Hazard class none

#### Labeling

Trade Name **FOMBLIN® Y**

Grades: L VAC 06/6, L VAC 14/6, L VAC 16/6, L VAC 25/6

Hazard Symbol none

Risk Phrases (R) none

Safety Phrases(S) none



**Ausimont  
(Deutschland) GmbH**

**SAFETY DATA SHEET - according 93 / 112 EG**

**16) OTHER INFORMATIONS**

none

**BIBLIOGRAPHY**

AUSIMONT internal data

**Safety Data Sheet according EEC Directive 93 / 112**

*The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing. The company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use outside its control.*