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# Safety Data Sheet F4

Revision Date: 09.12.14 a

according to regulation 1907/2006/EC

Print date: 09.12.16

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

Product name:	F4
Uses:	Lubricant/ Operating Fluid
Manufacturer/ Supplier:	Pfeiffer Vacuum GmbH Berliner Strasse 43 D-35614 Asslar Telefon 06441/802-0 Telefax 06441/802-202 www.pfeiffer-vacuum.net
Emergency tele- phone number:	+49-(0) 6441/802-67222
Email:	info@pfeiffer-vacuum.de

### 2 Hazards identification

Hazard descrip- Not applicable. tion:

Information con- Not applicable. cerning particular hazards for human and environment:

## **3** Composition/information on ingredients

#### Chemical characterization

CAS No. perfluorinated polyether oil Description:

#### Identification number(s)

EINECS Number: Polymer

4	First-aid measures		
	After inhalation:	Supply fresh air; consult doctor in case of complaints.	
	After skin contact:	Wash off with soap and plenty of water.	
	After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
	After swallowing:	If symptoms persist consult doctor.	
5	Fire-fighting mo	easures	
	Suitable extinguis- hing agents:	Use fire extinguishing methods suitable to surrounding condi- tions.	
	Special hazards caused by the sub- stance, its products of combustion or resulting gases:	In case of fire, the following can be released: traces of fluorinated products.	
	Protective equip- ment:	Do not inhale explosion gases or combustion gases. Standard procedure for chemical fires.	
	Additional informa- tion:	Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.	
6	Accidental relea	ase measures	
	Person-related safety precautions:	Not required.	
	Measures for envi- ronmental protec- tion:	Do not allow to enter sewers/ surface or ground water.	
	Measures for cle- aning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid bin- ders, universal binders, sawdust). Dispose of the material col- lected according to regulations.	
7	Handling and s	torage	
	Handling		
	Information for safe handling:	No special measures required. Prevent formation of aerosols.	
	Information about fire - and explosion protection:	No special measures required.	

	Storage		
	Requirements to be met by storerooms and receptacles:	Store in cool, dry cor	nditions in well sealed receptacles.
	Information about storage in one com- mon storage facility:	Store away from foo	dstuffs.
	Further information about storage condi- tions:	None.	
8	Exposure contr	ols/personal pro	otection
	Additional informa- tion about design of technical facilities:	No further data; see i	tem 7.
	Ingredients with limit values that require monitoring at the workplace:	Not required.	
	Additional informa- tion:	The lists valid during	the making were used as basis.
	Personal protective	equipment	
	General protective and hygienic measu- res:	id close or long term	all soiled and contaminated clothing. Avo- contact with the skin. Be sure to clean skin k and before breaks. Keep away from tob-
	Respiratory protec- tion:	Not required.	
	Protection of hands:	Preventive skin prote recommended.	ction by use of skin-protecting agents is
	Eye protection:	Not required.	
9	Physical and ch	emical propertie	es
		General Information	
		Form	Fluid

Form	Fluid
Colour	Colourless
Odour	Odourless
Change in condition Pour point	< -50°C (DIN ISO 3016)

Flash point	not applicable
Danger of explosion	Product does not present an explosion hazard
Density at 20°C	1,9 g/cm <sup>3</sup> (DIN 51757)
Solubility in / Miscibility with water	Insoluble
Viscosity Kinematic at 40°C	~ 60 mm <sup>2</sup> /s (DIN 51562)

# 10 Stability and reactivity

Thermal decomposi- tion / conditions to be avoided:	No decomposition if used and stored according to specificati- ons.
Dangerous reactions:	No dangerous reactions known.
Dangerous decom- position products:	> 280°C danger of forming toxic pyrolysis products.

# **11** Toxicological information

Additional toxicolo-<br/>gical information:Prolonged skin contact may cause skin irritation and/or derma-<br/>titis.

## **12 Ecological information**

#### **Ecotoxical effects**

Behaviour in sewage processing plants:	The product can be mechanically separated.
General notes:	Do not allow product to reach ground water, water course or sewage system.

### **13 Disposal considerations**

#### Product

Recommendation:	Can be incinerated in accordance with local and national regu- lations.
Waste disposal key:	For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpo- se of application defined by the user enables an allocation. The waste code number has to be determined in accordance with the local waste disposer.

	Uncleaned packaging:		
	Recommendation:	Empty contaminated packagings thoroughly. They may be re- cycled after thorough and proper cleaning.	
14	Transport inform	nation	
	Land transport ADR	/RID (cross-border)	
	ADR/RID class:	-	
	Maritime transport	IMDG:	
	IMDG class:	-	
	Air transport ICAO-	TI and IATA-DGR	
	ICAO/IATA class:	-	
	Transport/Additiona	al information	
		Not classified as dangerous according to the above specifications.	
15	Regulatory info	rmation	
	Labelling according to EU guidelines:	The substance is not subject to classification according to EU lists and other sources of literature known to us.	
16	Other informati	on	
		This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual rela- tionship.	
	Department issuing MSDS:	Development Dep./Technical Documentation	