



## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

#### 1.1 Product identifier

Product name: RENOLIN PG 220

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

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

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

**Manufacturer / Supplier** Fuchs Europe Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

Telephone: 0621 3701-0 (ZENTRALE)  
Fax: 0621 3701-570

**Contact Person:** Fuchs Europe Schmierstoffe GmbH Abteilung Produktsicherheit  
Telephone: 0621 3701-1333  
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e-mail: produktsicherheit@fuchs-europe.de

1.4 Emergency telephone number: 0621 3701-1333 ODER 0621 3701-0

**EMERGENCY  
TELEPHONE NO.  
800-255-3924**

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to the legislation in force.

##### Hazard summary

**Physical hazards:** By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.

**Environmental hazards:** This product is water polluting.

#### 2.2 Label elements

Safety data sheet available for professional user on request.



Product name: RENOLIN PG 220

2.3 Other hazards: No data available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

General information: Mixture of synthetic base oils with additives.

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
Amine aromatic , alkylated	>=1,00 - <2,40%	Confidential	Confidential	
Phenol derivative	>=1,00 - <2,40%	Confidential	Confidential	#
Oleic acid derivative	>=0,10 - <1,00%	203-749-3	01-2119488991-20	
phosphoric ester derivative	>=0,10 - <1,00%	Confidential	Confidential	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#### Classification

Chemical name	Classification	
Amine aromatic , alkylated	DSD:	R52/53
	CLP:	Aquatic Chronic 3;H412
Phenol derivative	DSD:	R53
	CLP:	Aquatic Chronic 4;H413
Oleic acid derivative	DSD:	Xn; R20 Xi; R38 R41 N; R50
	CLP:	Eye Dam. 1;H318, Aquatic Acute 1;H400, Acute Tox. 4;H332, Skin Irrit. 2;H315
phosphoric ester derivative	DSD:	Xi; R36/38 N; R51/53
	CLP:	Skin Irrit. 2;H315, Eye Dam. 2;H319, Aquatic Chronic 2;H411

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

The full text for all R- and H-phrases is displayed in section 16.

### SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

#### 4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin contact: Wash with soap and water. The product is not skin irritating.

Ingestion: Rinse mouth thoroughly.



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**4.2 Most important symptoms and effects, both acute and delayed:** May cause skin and eye irritation.

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

**Hazards:** No data available.

**Treatment:** Get medical attention if symptoms occur.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added

**Unsuitable extinguishing media:** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

**5.3 Advice for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental precautions:** Prevent from spreading (e.g. by binding or oil barriers).

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

**6.4 Reference to other sections:** See Section 8 of the MSDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

### SECTION 7: Handling and storage:

**7.1 Precautions for safe handling:** Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.



Product name: RENOLIN PG 220

**7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols.

**7.3 Specific end use(s):** No data available.

**Storage Class:** 10, Combustible liquids

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Chemical name	Type	Exposure Limit values	Source
Phenol derivative - Inhalable fraction.	AGW	10 mg/m <sup>3</sup>	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (09 2012)

### 8.2 Exposure controls

**Appropriate engineering controls:** No data available.

#### Individual protection measures, such as personal protective equipment

**General information:** Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

**Eye/face protection:** Safety glasses (EN 166) recommended during refilling.

#### Skin protection

**Hand protection:** Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other:** Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.

**Thermal hazards:** No data available.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.



Product name: RENOLIN PG 220

Environmental Controls: No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical State:	Liquid
Form:	Liquid
Color:	Yellow
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	240 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	1,0750 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	partly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	220 mm <sup>2</sup> /s (40 °C)
Flow time:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	No data available.

## SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical stability:	No data available.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Avoid heat or contamination.
10.5 Incompatible materials:	Strong oxidizing substances. Strong acids. Strong bases.



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**10.6 Hazardous decomposition products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute Toxicity

##### Oral

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Amine aromatic , alkylated	LD 50 (Rat): > 2.001 mg/kg
Phenol derivative	LD 50 (Rat): > 5.000 mg/kg
Oleic acid derivative	LD 50 (Rat): 9.200 mg/kg
phosphoric ester derivative	LD 50 (Rat): > 2.001 mg/kg

##### Dermal

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Amine aromatic , alkylated	LD 50 (Rat): > 2.001 mg/kg
Phenol derivative	LD 50 (Rabbit): > 2.001 mg/kg (OECD 402)
Oleic acid derivative	No data available.
phosphoric ester derivative	LD 50 (Rat): > 2.001 mg/kg

##### Inhalation

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	LC 50 (Rat, 4 h): 1,37 mg/l Vapour
phosphoric ester derivative	No data available.

##### Repeated dose toxicity

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

##### Skin corrosion/irritation:



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**Product:** No data available.

**Specified substance(s)**

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester No data available.

derivative

**Serious eye damage/eye  
irritation:**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester No data available.

derivative

**Respiratory or skin  
sensitization:**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic ,  
alkylated No data available.

Phenol derivative (Guinea Pig)Not a skin sensitizer.

Oleic acid derivative No data available.

phosphoric ester No data available.

derivative



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#### Germ cell mutagenicity

##### In vitro

**Product:** No data available.

##### Specified substance(s)

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester  
derivative No data available.

##### In vivo

**Product:** No data available.

##### Specified substance(s)

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester  
derivative No data available.

#### Carcinogenicity

**Product:** No data available.

##### Specified substance(s)

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester  
derivative No data available.

#### Reproductive toxicity

**Product:** No data available.

##### Specified substance(s)

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester  
derivative No data available.

#### Specific target organ toxicity - single exposure

**Product:** No data available.

##### Specified substance(s)





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Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

**Aspiration hazard**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

**Other adverse effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic , alkylated	LC 50 (Fish, 96 h): > 71 mg/l
Phenol derivative	LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)
Oleic acid derivative	LC 50 (Fish, 96 h): 3,2 - 4,6 mg/l
phosphoric ester derivative	LC 50 (Fish, 96 h): 5,5 mg/l

**Aquatic invertebrates**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic , alkylated	EC 50 (Water Flea, 48 h): 51 mg/l
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Phenol derivative	EC 50 (Water Flea, 24 h): > 101 mg/l (OECD 202)
Oleic acid derivative	EC 50 (Water Flea, 48 h): 0,53 mg/l
phosphoric ester derivative	EC 50 (Water Flea, 48 h): 1,2 mg/l

### Chronic Toxicity

#### Fish

**Product:** No data available.

#### Specified substance(s)

Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

#### Aquatic invertebrates

**Product:** No data available.

#### Specified substance(s)

Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

#### Specified substance(s)

Amine aromatic , alkylated	No data available.
Phenol derivative	EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)
Oleic acid derivative	EC 50 (Alga, 72 h): 5,1 mg/l
phosphoric ester derivative	No data available.

### 12.2 Persistence and degradability

#### Biodegradation

**Product:** No data available.

#### Specified substance(s)

Amine aromatic , alkylated	No data available.
Phenol derivative	The product is slightly biodegradable.
Oleic acid derivative	No data available.
phosphoric ester derivative	No data available.

#### BOD/COD ratio



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**Product** No data available.

**Specified substance(s)**

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester  
derivative No data available.

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

Amine aromatic ,  
alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester  
derivative No data available.

**12.4 Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Amine aromatic , alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester derivative No data available.

**12.5 Results of PBT and vPvB  
assessment:** No data available.

Amine aromatic , alkylated No data available.

Phenol derivative No data available.

Oleic acid derivative No data available.

phosphoric ester derivative No data available.

**12.6 Other adverse effects:** No data available.

**Water Hazard Class  
(WGK):** WGK 1: slightly water-endangering.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

**European Waste Codes:** 13 02 06\*: synthetic engine, gear and lubricating oils



Product name: RENOLIN PG 220

## SECTION 14: Transport information

### ADR/RID

Non-dangerous goods

### ADN

Non-dangerous goods

### IMDG

Non-dangerous goods

### IATA

Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

## SECTION 15: Regulatory information

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

### National Regulations

Water Hazard Class  
(WGK):

WGK 1: slightly water-endangering.

15.2 Chemical safety  
assessment:

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

### Wording of the R-phrases and H-statements in section 2 and 3

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R20	Harmful by inhalation.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.



**Product name:** RENOLIN PG 220

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**Training information:** Follow training instructions when handling this material.

**Revision date:** 05.08.2014

**Disclaimer:** The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.