

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 830/2015)



Trade name : PANOLIN EP GEAR SYNTH 220
Revision date : 18.02.2020
Print date : 09.04.2020

Version (Revision) : 2.1.1 (22.08.2018)

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

1.1 Product identifier

PANOLIN EP GEAR SYNTH 220 (27335)

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

Relevant identified uses

Gearoil,

Product Categories [PC]

PC 24 - Lubricants, greases, release products

PC 24 - Lubricants, greases, release products

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier :

Panolin AG

Street/P.O.Box :

Bläsimühle

Country code/Postal

8322 Madetswil

code/Town/City :

Country :

Switzerland

Telephone :

+41(0)44 956 65 65

Contact :

info@panolin.com

1.4 Emergency telephone number

Swiss Toxicological Information Centre

Phone: +41 (0)44/ 251 51 51

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

None

2.2 Label elements

None

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture of synthetic esters and additives.

Hazardous ingredients

None

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

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Remove affected person from the danger area and lay down. Contaminated, soaked clothing and shoes change and clean. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician. If unconscious place in recovery position and seek medical advice.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact

Remove contact lenses, keep eyelids open. Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

If symptoms occur consult a doctor Do NOT induce vomiting. Let water be drunken in little sips (dilution effect).

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam • Carbon dioxide (CO₂) • Dry extinguishing powder • Water mist • Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Under extreme heating in closed containers polymerisation, decomposition Pressure formation and bursting of containers possible. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of fire residues and contaminated fire fighting water in line with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not discharge into the sewage system/surface water/ground water/subsoil as well as the soil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Take up with oil-absorbing compound. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clean contaminated articles and floor

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according to the environmental legislation.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Protective measures

It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists All work processes must always be designed so that the following is excluded: Skin contact • Eye contact Wear personal protection equipment (refer to section 8). If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Measures to prevent fire

The product is not: Flammable Usual measures for fire prevention. Keep container tightly closed. Never use pressure to empty container. When using do not smoke. Only allow access to authorised staff.

Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product. Provide for retaining containers, eg. floor pan without outflow. Keep/Store only in original container.

Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

Do not store together with

Oxidizing agent Strong acid • Strong alkali • Oxidizing agent

Keep away from

Food and feedingstuffs

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Do not store outside.

Recommended storage temperature : 5°C - 40°C

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses

Provide adequate ventilation.

Personal protection equipment

Safety Data Sheet

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Eye/face protection

Required properties

DIN EN 166 tightly-fitting

Skin protection

Hand protection

NBR (Nitrile rubber) EN ISO 374

Required properties : oil resistant

Body protection

Suitable protective clothing : oil proof

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Filtering Half-face mask (DIN EN 149)

General health and safety measures

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : light yellow

Odour : characteristic

Safety relevant basis data

Pourpoint	-41	°C	
Initial boiling point and boiling range :	(1013 hPa)	No data available	
Decomposition temperature :	No data available		
Flash point :	300	°C	Flammpunkt Cleveland ASTM D 92
Flash point :	288	°C	Flammpunkt Pensky Martens ASTM D 93
Lower explosion limit :	No data available		
Upper explosion limit :	No data available		
Vapour pressure :	(50 °C)	No data available	
Density :	(15 °C)	0.923	g/cm ³
Solvent separation test :	(20 °C)	not applicable	
Water solubility :	(20 °C)	insoluble	
pH :	No data available		
log Kow:	No data available		
Flow time :	(20 °C)	No data available	DIN-cup 4 mm
Viscosity :	(40 °C)	220	mm ² /s
Odour threshold :	No data available		
Vapourisation rate :	not applicable		
Maximum VOC content (EC) :	0	Wt %	

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Oxidising liquids : Not applicable.
Explosive properties : Not applicable.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Oxidising agent, strong.

10.4 Conditions to avoid

Safe handling: see section 7

10.5 Incompatible materials

Alkali (lye), concentrated. • Acid, concentrated. • Oxidising agent, strong.

10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. Exothermal decomposition with formation of: Carbon dioxide. • Carbon monoxide • carbon black. • Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

None This information is based on data from the components of the preparation, or similar materials.

Irritant and corrosive effects

Primary irritation to the skin

Not an irritant. This information is based on data from the components of the preparation, or similar materials.

Irritation to eyes

Not an irritant. This information is based on data from the components of the preparation, or similar materials.

Sensitisation

None known. This information is based on data from the components of the preparation, or similar materials.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Carcinogenicity

Assessment/classification

None

11.5 Additional information

Safe handling: see section 7

SECTION 12: Ecological information

12.1 Toxicity

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. This information is based on data from the components of the preparation, or similar materials.

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12.2 Persistence and degradability

Readily biodegradable (according to OECD criteria). This information is based on data from the components of the preparation, or similar materials.

Abiotic degradation

Mechanical separation in a suitable sewage plant is possible.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Low

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 ecotoxicological information

Do not empty the product into drains, do not store on public depositories disposal: in accordance with local official regulations.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Content and contaminated packaging should be treated as hazardous waste. Delivery to an approved waste disposal company.

Product/Packaging disposal

Disposal, in accordance with local official regulation.

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (91/689/EEC) : 13 02 07* readily biodegradable engine, gear and lubricating oils.

Waste treatment options

Appropriate disposal / Package

Empty containers should be scrapped or reconditioned. Containers, which have not been emptied properly must be treated as special waste.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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SECTION 15: Regulatory information

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

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

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

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

15. Water hazard class (WGK)

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 [CLP]

No information available.

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

None

16.6 Training advice

None

16.7 Additional information

None

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 this safety data sheet is not necessarily valid for the new made-up material.