



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: TITAN GEAR HYP LD 80W-90

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 Schmierstoffe GmbH
Friesenheimer Str. 19
68169 Mannheim

US Distributor

Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426
(708) 333-8900
(800) 255-3924 24 hrs Emergency

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

Contact Person:

Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Telephone:

+49 621 3701-1333

Fax:

+49 621 3701-7303

E-mail:

produktsicherheit@fuchs-schmierstoffe.de

1.4 Emergency telephone number:

+49 621 3701-1333 ODER +49 621 3701-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

The product is not classified according to Directive 67/548/EEC or Directive 1999/45/EC

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Serious eye irritation

Category 2

H319: Causes serious eye irritation.

Product name: TITAN GEAR HYP LD 80W-90

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H319: Causes serious eye irritation.

Precautionary Statement

Prevention: P262: Do not get in eyes, on skin, or on clothing.

Supplemental label information

EUH208: Contains amine phosphate. May produce an allergic reaction.

2.3 Other 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. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
Methacrylate copolymer	1,00 - <5,00%	Confidential	Confidential	
amine phosphate	1,00 - <3,00%	931-384-6		
Phosphoric acid ester amine salt	0,10 - <1,00%	296-404-1		

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

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Product name: TITAN GEAR HYP LD 80W-90

Classification

Chemical name	Classification	
Methacrylate copolymer	DSD:	Xi; R36
	CLP:	Eye Irrit. 2;H319
amine phosphate	DSD:	Xn; R22 Xi; R41 R43 N; R51/53
	CLP:	Eye Dam. 1;H318, Acute Tox. 4;H302, Skin Sens. 1;H317, Aquatic Chronic 2;H411
Phosphoric acid ester amine salt	DSD:	Xi; R38 R41 N; R51/53
	CLP:	Eye Dam. 1;H318, Skin Irrit. 2;H315, Aquatic Chronic 2;H411

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements 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 clothing pockets.

4.1 Description of first aid measures

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

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

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

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: Causes serious 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: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media: Water with a full water jet.

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- 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:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. 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 SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.
- Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.
- 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. Do not heat up to temperatures close to the flash point.
- 7.3 Specific end use(s):** not applicable

SECTION 8: Exposure controls/personal protection

- 8.1 Control Parameters**
- Occupational Exposure Limits**
- None of the components have assigned exposure limits.

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8.2 Exposure controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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 through 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: Seek advice from local supervisor. Ensure good ventilation/exhaustion at the workplace. 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.

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:	Dark yellow
Odor:	Characteristic
Odor Threshold:	No data available.



Product name: TITAN GEAR HYP LD 80W-90

pH:	not applicable
Freezing point:	-28 °C
Boiling Point:	No data available.
Flash Point:	205 °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:	0,90 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
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:	149 mm ² /s (40 °C)
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.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.

Product name: TITAN GEAR HYP LD 80W-90

Eye contact: Causes eye irritation.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 153.846,15 mg/kg

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	LD 50 (Rat): 2.000 mg/kg
Phosphoric acid ester amine salt	No data available.

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.



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Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

In vivo

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

Carcinogenicity

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

Reproductive toxicity

Product: No data available.

Product name: TITAN GEAR HYP LD 80W-90

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester amine salt	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)

Methacrylate copolymer	No data available.
amine phosphate	LC 50 (Fish, 96 h): 24 mg/l
Phosphoric acid ester amine salt	No data available.

Aquatic Invertebrates

Product: No data available.

Product name: TITAN GEAR HYP LD 80W-90

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	EC 50 (Water Flea, 48 h): 91,4 mg/l
Phosphoric acid ester	No data available.
amine salt	

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)



Product name: TITAN GEAR HYP LD 80W-90

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

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

Methacrylate copolymer	No data available.
amine phosphate	No data available.
Phosphoric acid ester	No data available.
amine salt	

12.6 Other Adverse Effects: No data available.

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 05*: mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

ADR/RID

14.1 UN Number:	—
14.2 UN Proper Shipping Name:	—
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	—
Hazard No. (ADR):	—
Tunnel restriction code:	—
14.4 Packing Group:	—
14.5 Environmental hazards:	—
14.6 Special precautions for user:	—



Product name: TITAN GEAR HYP LD 80W-90

ADN

- 14.1 UN Number: –
- 14.2 UN Proper Shipping Name: –
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): –
- 14.3 Packing Group: –
- 14.5 Environmental hazards: –
- 14.6 Special precautions for user: –

IMDG

- 14.1 UN Number: –
- 14.2 UN Proper Shipping Name: –
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): –
 - EmS No.: –
- 14.3 Packing Group: –
- 14.5 Environmental hazards: –
- 14.6 Special precautions for user: –

IATA

- 14.1 UN Number: –
- 14.2 Proper Shipping Name: –
- 14.3 Transport Hazard Class(es):
 - Class: Non-dangerous goods
 - Label(s): –
- 14.4 Packing Group: –
- 14.5 Environmental hazards: –
- 14.6 Special precautions for user: –

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.:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

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.

Product name: TITAN GEAR HYP LD 80W-90

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Training information: Follow training instructions when handling this material.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 09.06.2015

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.