

SAFETY DATA SHEET

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



Filling and Packaging – Worldwide

Gear Fluid 320

date of version: 05.02.2018 V 1.1
date of issue: 08.12.2017

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

1.1 Product identifier

Product name: Gear Fluid 320

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

Identified uses:

Uses advised against: No usage which is apart from.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier KHS GmbH Juchostr. 20
44143 Dortmund
www.khs.com
Germany

Telephone: +49 (0)231 / 569-10000

Fax: +49 (0)231 / 569-410300

Contact Person: Service Products

E-Mail: service.products@khs.com

1.4 Emergency telephone number +49 (0)6131 / 19240 (24h-emergency call)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture The product has not been classified as hazardous and does not need to be labelled according to regulation (EU) no 1272/2008 (CLP).

2.2 Label elements not applicable

Hazard statements: none

Precautionary statements:

Supplemental label elements: The product may not be released into the environment without control. By handling of chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.

2.3 Other hazards

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterization

General information: Synthesis oil preparation with additives. The ingredients are not hazardous and below the consideration limits.

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. Instantly remove any clothing soiled by the product.

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. Im allgemeinen ist das Produkt nicht hautreizend.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed no data available.

4.3 Indication of any immediate medical attention and special treatment needed 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

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Unsuitable extinguishing media:	water in full jet.
Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
Advice for firefighters	no data available.
Special fire fighting procedures:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measure

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). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
6.3 Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
6.4 Reference to other sections	Section 01 Contact information in case of an emergency Section 07 Handling and storage Section 08 appropriate personal protective equipment Section 13 Disposal considerations

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SECTION 7: Handling and storage

7.1 Precautions for safe handling	Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.
7.2 Conditions for safe storage, including any incompatibilities	Local regulations concerning handling and storage of waterpolluting products have to be followed.
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	
8.2 Exposure controls	None of the components have assigned exposure limits.
8.2.1 Appropriate engineering controls:	Provide adequate ventilation. 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.
8.2.2 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.

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Eye/face protection:	safety glasses (EN 166) recommended during refilling.
Hand Protection:	Material: 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
colour:	colourless
odor:	characteristic
odor threshold:	no data available.
pH:	not applicable
boiling Point:	< -9 °C
flash point:	no data available.
flash point:	>200°C

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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:	< 0,005 hPa (20 °C)
vapor density (air=1):	no data available.
density:	0,85 g/cm ³ (15 °C)
solubility(ies)	
solubility in Water:	unsoluble in water
solubility (other):	no data available.
partition coefficient (n-octanol/water):	no data available.
autoignition Temperature:	
autoignition Temperature:	no data available.
decomposition Temperature:	no data available.
kinematic viscosity:	288 - 352 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 use conditions.
10.2 chemical stability	no data available.
10.3 possibility of hazardous reactions	none
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

11.1 information on likely routes of exposure	
Acute toxicity	
Oral product:	Not classified for acute toxicity based on available data.
Dermal product:	Not classified for acute toxicity based on available data.

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Inhalation product:	Not classified for acute toxicity based on available data.
skin corrosion/irritation product:	no data available.
serious eye damage/eye irritation product:	no data available.
respiratory or skin sensitization:	no data available.
germ cell mutagenicity product:	no data available.
carcinogenicity product:	no data available.
reproductive toxicity product:	no data available.
specific target organ toxicity - single exposure product:	no data available.
specific target organ toxicity - repeated exposure product:	no data available.
aspiration hazard product:	no data available.
other adverse effects:	no data available.

SECTION 12 :Ecological information

12.1 Toxicity

Acute toxicity product: no data available.
chronic toxicity product: no data available.

12.2 Persistence and Degradability

Biodegradation product: no data available.

12.3 Bioaccumulative potential

product: no data available.

12.4 mobility in soil

product: no data available.

12.5 results of PBT and vPvB assessment:

no data available.

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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.

SECTION 14: transport information

ADR/RID

14.1 UN number:
14.2 UN proper shipping name:
14.3 transport hazard class(es) non-dangerous goods
class
label(s)
hazard no. (ADR):
tunnel restriction code:
14.4 packing group:
14.5 environmental hazards:
14.6 special precautions for user:

ADN

14.1 UN number:
14.2 UN proper shipping name:
14.3 transport hazard class(es) non-dangerous goods
class
14.4 packing group:
14.5 environmental hazards:
14.6 special precautions for user:

IMDG

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14.1 UN number:
14.2 UN proper shipping name:
14.3 transport hazard class(es) non-dangerous goods class
14.4 packing group:
14.5 environmental hazards:
14.6 special precautions for user:

IATA

14.1 UN number:
14.2 UN proper shipping name:
14.3 transport hazard class(es) non-dangerous goods class
14.4 packing group:
14.5 environmental hazards:
14.6 special precautions for user:

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

national regulations

water hazard class (WGK): WGK 1: slightly water-endangering.

15.2 chemical safety assessment: No Chemical Safety Assessment has been carried out.

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SECTION 16: other information

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

wording of the H-statements
in section 2 and 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H412 Harmful to aquatic life with long lasting effects

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: 05.02.2018
section 10.5 has been corrected.

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.