

Product name: ZF LifeguardFluid 7.4 DCT

ZF Aftermarket

1. Product and company identification

1.1 Product identifier

Product name: ZF LifeguardFluid 7.4 DCT

Product number: 5961.308.591

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

Identified uses: Hydraulic/transmission fluid

Uses advised against:

No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

ZF Friedrichshafen AG ZF Aftermarket Obere Weiden 12 97424 Schweinfurt Germany +49 9721 475 60

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1.4 Emergency number

24/7h Emergency information/ emergency number:

(+49) 89 19 240 (Poison emergency call – Information in German and English)

2. Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

Health Hazards

Carcinogenicity Category 2

Environmental Hazards

Chronic hazards to the aquatic Category 3

environment

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Hazard summary No data available.

Physical Hazards:

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2.2 Label Elements

Signal Words: Warning

Hazard Statement(s): H351: Suspected of causing cancer.

H412: Harmful to aquatic life with

long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions

before use.

P202: Do not handle until all safety precautions have been read and

understood.

P281: Use personal protective

equipment as required. P273: Avoid release to the

environment.

Response: P308+P313: IF exposed or concerned:

Get medical advice/attention.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container

to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

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.

Unknown toxicity: Due to information available product

does not contain any ingredients of

unknown toxicity.

3. Composition/Information on ingredients

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General information: Mixture containing severely refined

base oils and additives.

Chemical name	Identifier	Concentratio	Notes
		n *	
base oil, low	72623-87-1	50,00 -	
viscous		<100,00%	
Solvent Naphtha,	64742-94-5	0,10 -	
low viscous		<1,00%	
Alkyl amine	61791-44-4	0,10 -	
		<0,25%	
prim.	218141-16-3	0,01 -	
alkanolamine		<0,10%	
ether			

^{*} 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.

Classification

Chemical name	Identifier	Classification
base oil, low	72623-87-1	Asp. Tox. 1;H304
viscous		
Solvent Naphtha,	64742-94-5	Asp. Tox. 1;H304, STOT SE 3;H336,
low viscous		Carc. 2;H351, Aquatic Chronic
		2;H411
Alkyl amine	61791-44-4	Skin Corr. 1C;H314, Eye Dam.
		1;H318, Aquatic Acute
		1;H400, Aquatic Chronic 1;H410,
		Acute Tox. 4;H302; M-Factor
		(aquatic acute): 10; M-Factor
		(aquatic chronic): 1
prim.	218141-16-3	Acute Tox. 4;H302, Skin Corr.
alkanolamine		1B;H314, Eye Dam. 1;H318,
ether		Aquatic Acute 1;H400, Aquatic
		Chronic 1;H410; M-Factor
		(aquatic acute): 100; M-Factor
		(aquatic chronic): 1

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

4. First aid measures

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General: 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.

Ingestion: Rinse mouth thoroughly.

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

Get medical attention if symptoms occur.

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.

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

Move container from fire area if it can be done without risk. Dispose of fire

be done without risk. Dispose of fire debris and contaminated fire fighting

water inaccordance with official

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regulations. Collect contaminated fire fighting water separately. It must not enter drains.

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

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

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. 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

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.

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. Do not heat up to temperatures close to the flash point.

7.3 Specific end use(s)

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Not applicable

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8. Exposure controls/ personal protection

8.1 Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
base oil, low viscous - Inhalable fraction	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2014)
base oil, low viscous	PEL	500 ppm 2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
base oil, low viscous - Mist.	PEL	5 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
base oil, low viscous	TWA	400 ppm 1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
base oil, low viscous - Mist.	TWA	5 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Solvent Naphtha, low viscous – Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2014)

8.2 Exposure controls

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.

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

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standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the

mineral oil products.

Eye/face protection: Safety glasses (EN 166)

recommended during refilling. Avoid

contact with skin and eyes. Goggles/face shield are

recommended. If risk of splashing, wear safety goggles or face shield.

Skin protection Hand Protection: Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: >= 480 min Recommended thickness of the

material: >= 0.38 mm

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: 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

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contaminated footwear that cannot be

cleaned.

Environmental Controls: No data available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid Color: Amber

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: Not applicable

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: > 200 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-:

Flammability Limit - Lower (%)-:

Vapor pressure:

Vapor density (air=1):

Density:

Not applicable for mixtures

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 33 - 37 mm²/s (40 °C)

Explosive properties: Value not relevant for classification Oxidizing properties: Value not relevant for classification

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity Stable under normal use conditions.

10.2 Chemical Stability Stable under normal use conditions.

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10.3	Possibility of hazardous reactions	Stable under normal use conditions.
10.4	Conditions to avoid	Stable under normal use conditions.
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.

11. Toxicological information

11.1 Information on likely routes of exposure

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

Acute toxicity

Oral Not classified for acute toxicity based

Product: on available data.

Specified substance(s) LD 50 (Rat): 1,350 mg/kg (OECD 401)

Alkyl amine

Dermal Not classified for acute toxicity based

Product: on available data.

Specified substance(s) LD 50 (Rabbit): > 31,600 mg/kg

Solvent Naphtha, low viscous

Inhalation Not classified for acute toxicity based

Product: on available data.

Skin Corrosion/Irritation

Product:

Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation

Product:

Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization

Product:

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Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)No sensitizing effect (guinea pig);

Alkyl amine OECD 406

Germ Cell Mutagenicity

Product:

Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Based on available data, the classification criteria are met.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Reproductive toxicity

Product:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product:

Based on available data, the classification criteria are not met.

Aspiration Hazard

Product:

Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity

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Acute toxicity	Based on available data, the
Product:	classification criteria are not met.

Fish		LC 50 (Fish,	96 h): 0.1	mg/l (OECD
_		 \		

Specified substance(s) 203)

Alkyl amine

Aquatic Invertebrates EC 50 (Water Flea, 48 h): 3 - 10 mg/l Specified substance(s)

Solvent Naphtha, low viscous

Alkyl amine EC 50 (Water Flea, 48 h): 0.043 mg/l

(OECD 202)

Chronic ToxicityProduct:
Based on available data, the classification criteria are met.

Fish NOEC (Fish, 14 d): > 1,000 mg/l

Specified substance(s) base oil, low viscous

Aquatic Invertebrates NOEC (Water Flea, 21 d): 10 mg/l Specified substance(s) (OECD 211)

base oil, low viscous

Alkyl amine EC 10 (Water Flea, 21 d): 0.0107 mg/l

(OECD 211)

Toxicity to Aquatic Plants

Specified substance(s)

base oil, low viscous

NOEC (Alga, 72 h): > 100 mg/l (OECD 201)

Alkyl amine EC 50 (Alga, 72 h): 0.0538 mg/l

(OECD 201)

NOEC (Alga, 72 h): 0.0156 mg/l

12.2 Persistence and Degradability

Biodegradation Not applicable for mixtures

Product:

Specified substance(s) 63 % (28 d, OECD 301D) Readily

Alkyl amine biodegradable

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil

Product: Not applicable for mixtures

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12.5 Results of PBT and vPvB assessment

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all

applicable regulations.

Disposal methods: Discharge, treatment, or disposal may

be subject to national, state, or local

laws.

14. Transport information

DOT

Not regulated.

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

15. Regulatory information

US Federal Regulations

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Inventory Status

DSL	On or in compliance with the	
	inventory	
TSCA	On or in compliance with the	
	inventory	

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16. Other information

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

Wording of the H-statements in section 2 and 3

 H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. 	H302	Harmful if swallowed.
 H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 	H304	May be fatal if swallowed and enters airways.
 H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 	H314	Causes severe skin burns and eye damage.
 H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 	H318	Causes serious eye damage.
 H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 	H336	May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effectsH411 Toxic to aquatic life with long lasting effects.	H351	Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.

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.

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