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



Product name: ZF LifeguardFluid 7.3 DCT

ZF Aftermarket

1. Product and company identification

1.1 Product identifier

Product name: ZF LifeguardFluid 7.3 DCT

Product number: 0671.090.534

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

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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 regulation (EU) 1272/2008 (CLP).

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

Environmental Hazards

Chronic hazards to the aquatic Category 3

environment H412: Harmful to aquatic life with long

lasting effects.

Hazard summary No data available.

Physical Hazards:

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2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with

long lasting effects.

Precautionary Statements

Prevention: P273: Avoid release to the

environment.

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.

Supplemental label information: EUH208: Contains: Triisobutyl

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.

3. Composition/Information on ingredients

3.2 Mixtures

General information: mixture of synthetic base oils and

severely refined base oil.

Chemical name	Identifier	Concentration *	REACH Registration
			No.
Hydrocarbons,	EC: 500-183-1	20,00% - <50,00%	01-2119486452-34
low viscous			
base oil, low	EINECS: 276-738-4	20,00% - <50,00%	01-2119474889-13
viscous			
Triisobutyl	EINECS: 204-798-3	0,10% - <1,00%	01-2119957118-32
phosphate			
Alkyl amine	EC: 620-540-6	0,10% - <0,25%	01-2119510877-33

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Solvent	EINECS: 265-198-5	0,10% - <1,00%	01-2119463588-24
Naphtha, low			
viscous			
prim.	EC: 939-485-7	0,01% - <0,10%	01-2119974116-35
alkanolamine			
ether			
hydroxyethyl-	EINECS: 276-014-8	0,01% - <0,10%	01-2119957489-17
alkylamine			

^{*} 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

Olassification				
Chemical name	Identifier	Classification		
Hydrocarbons,	EC: 500-183-1	CLP: Asp. Tox. 1;H304		
low viscous				
base oil, low	EINECS: 276-	CLP: Asp. Tox. 1;H304		
viscous	738-4			
Triisobutyl	EINECS: 204-	CLP: Skin Sens. 1;H317		
phosphate	798-3			
Alkyl amine	EC: 620-540-6	CLP: 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		
Solvent Naphtha,	EINECS: 265-	CLP: Asp. Tox. 1;H304, STOT SE 3;H336,		
low viscous	198-5	Carc. 2;H351,		
		Aquatic Chronic 2;H411		
prim.	EC: 939-485-7	CLP: Acute Tox. 4;H302, Skin Corr. 1B;H314,		
alkanolamine		Eye Dam. 1;H318, Aquatic Acute 1;H400,		
ether		Aquatic Chronic 1;H410; M-Factor (aquatic		
		acute): 100; M-Factor		
		(aquatic chronic): 1		
hydroxyethyl-	EINECS: 276-	CLP: Acute Tox. 4;H302, Skin Corr. 1C;H314,		
alkylamine	014-8	Eye Dam. 1;H318, Repr. 2;H361d, Aquatic		
		Acute 1;H400, Aquatic Chronic 1;H410; M-		
		Factor (aquatic acute):		
		10; M-Factor (aquatic chronic): 10		

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

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

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IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

4. First aid measures

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.

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5.3 Advice for firefighters

Special fire fighting procedures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official 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

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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)

Not applicable

Storage Class:

10, Combustible liquids

8. Exposure controls/ personal protection

8.1 Exposure Limits

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Triisobutyl phosphate - Vapor and aerosol.	AGW	50 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (09 2013)
Solvent Naphtha, low viscous	AGW	50 ml/m ³ 200 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended
Solvent Naphtha, low viscous	AGW	100 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (2011)

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

standards and in discussion with the

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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.

Skin protectionMaterial: Nitrile butyl rubber (NBR).Hand Protection: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: Not known.

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.

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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: 220 °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):

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Density: 0.84 g/cm³ (20 °C)

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: 35 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.

10.3 Possibility of hazardous reactions Stable under normal use conditions.

10.4 Conditions to avoid Stable under normal use conditions.

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10.5 Incompatible Materials Strong oxidizing substances. Strong

acids. Strong bases.

10.6 Hazardous Decomposition Thermal decomposition or combustion

Products may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral Not classified for acute toxicity based

Product: on available data.

Specified substance(s)

Hydrocarbons, low viscous LD 50 (Rat): > 5.000 mg/kg

base oil, low viscous LD 50 (Rat): > 5.001 mg/kg (OECD

401)

Alkyl amine LD 50 (Rat): 1.350 mg/kg (OECD 401)

hydroxyethyl-alkylamine LD 50 (Rat): 1.500 mg/kg

Dermal Not classified for acute toxicity based

Product: on available data.

Specified substance(s)

Solvent Naphtha, low viscous LD 50 (Rabbit): > 31,600 mg/kg

Inhalation Not classified for acute toxicity based

Product: on available data.

Specified substance(s)

Hydrocarbons, low viscous LC 50 (Rat, 4 h): > 5 mg/l Dusts, mists and fumes

Skin Corrosion/Irritation

Product:

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

Serious Eye Damage/Eye Irritation

Product:

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

Respiratory or Skin Sensitization

Product:

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

hydroxyethyl-alkylamine No sensitizing effect (guinea pig);

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 not met.

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.

Other adverse effects:

No data available.

12. Ecological information

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12.1 Toxicity

Acute toxicity

Product:

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

Fish

Specified substance(s)

Hydrocarbons, low viscous LC 50 (Fish, 96 h): > 750 mg/l

base oil, low viscous LC 50 (Fish, 96 h): > 100 mg/l (OECD

203)

Alkyl amine LC 50 (Fish, 96 h): 0,1 mg/l (OECD

203)

hydroxyethyl-alkylamine LC 50 (Fish, 96 h): 0,1 mg/l (OECD

203)

Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low viscous EC 50 (Water Flea, 48 h): 190 mg/l

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

(OECD 202)

Solvent Naphtha, low viscous EC 50 (Water Flea, 48 h): 3 - 10 mg/l

hydroxyethyl-alkylamine EC 50 (Water Flea, 48 h): 0,48 mg/l

(OECD 202)

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

Fish

Specified substance(s)

base oil, low viscous NOEC (Fish, 14 d): > 1,000 mg/l

Aquatic Invertebrates Specified substance(s)

base oil, low viscous NOEC (Water Flea, 21 d): 10 mg/l

(OECD 211)

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

(OECD 211)

hydroxyethyl-alkylamine EC 10 (Water Flea, 21 d): 0,279 mg/l

(OECD 211)

Toxicity to Aquatic Plants

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Specified substance(s)

Hydrocarbons, low viscous EC 50 (Alga, 72 h): > 1.000 mg/l

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

hydroxyethyl-alkylamine EC 50 (Alga, 72 h): 0,107 mg/l (OECD

201)

EC 10 (Alga, 72 h): 0,0092 mg/l

(OECD 201)

12.2 Persistence and Degradability

Biodegradation Not applicable for mixtures

Product:

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

Alkyl amine biodegradable

hydroxyethyl-alkylamine > 60 % (28 d, OECD 301B) Readily

biodegradable

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil

Product: Not applicable for mixtures

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.

Water Hazard Class

(WGK):

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WGK 2: significantly water-endangering.

13. Disposal considerations

13.1 Waste treatment methods

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General information: Dispose in accordance with all

applicable regulations.

Disposal methods: Discharge, treatment, or disposal may

be subject to national, state, or local

laws.

European Waste Codes 13 02 05*: mineral-based non-

chlorinated engine, gear and

lubricating oils

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: --

ADN

14.1 UN Number: --14.2 UN 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: ---

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.: --14.4 Packing Group: --14.5 Environmental hazards: --14.6 Special precautions for user: ---

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IATA

14.1 UN Number: 14.2 UN 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 MARPOL and the IBC Code:

Not applicable.

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 2: significantly water-

endangering.

15.2 Chemical safety assessment: No Chemical Safety Assessment has

been carried out.

16. Other information

(WGK):

Revision Information: Vertical lines in the margin indicate an

amendment.

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

May cause an allergic skin reaction. H317

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H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
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.

Other information:

The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the application of the conventional method.

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.

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