

Product name: ZF Lifeguard eFluid 2

**ZF Aftermarket** 

# 1. Product and company identification

#### 1.1 Product identifier

Product name: ZF Lifeguard eFluid 2

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

ZF Friedrichshafen AG
ZF Aftermarket
Obere Weiden 12
97424 Schweinfurt
Germany
+49 9721 475 60
www.zf.com /contact

msds.zf-aftermarket@zf.com

### 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
Toxic to reproduction Category 2

**Environmental Hazards** 

Chronic hazards to the aquatic Category 3

environment

Hazard summary

Physical Hazards: No data available.

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#### 2.2 Label Elements



Signal Words: Warning

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

H361f: Suspected of damaging

fertility.

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.

P273: Avoid release to the

environment.

P281: Use personal protective

equipment as required.

**Response:** P308+P313: IF exposed or concerned:

Get medical advice/attention.

**Storage:** P405: Store locked up.

**Disposal:** P501: Dispose of contents/ container

to an approved facility in accordance with local, regional, national and

international regulations.

#### 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

#### 3.2 Mixtures

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General information: mixture of synthetic base oils and

severely refined base oil.



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<b>Chemical name</b> Hydrocarbons, low viscous	<b>Identifier</b> 68037-01-4	<b>Concentration *</b> 20.00 - <50.00%
base oil, low viscous	72623-87-1	20.00 - <50.00%
Base oil paraffinic Amine aromatic, alkylated Alkyl amine hydrocarbons, low viscous	64742-54-7 68411-46-1 61791-44-4 64742-94-5	1.00 - <10.00% 0.10 - <1.00% 0.10 - <0.25% 0.10 - <1.00%
prim. alkanolamine ether	218141-16-3	0.00 - <0.10%
hydroxyethyl-alkylamine	71786-60-2	0.01 - < 0.10%

<sup>\*</sup> 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
Hydrocarbons, low viscous	68037-01-4	Asp. Tox. 1;H304
base oil, low viscous	72623-87-1	Asp. Tox. 1;H304
Base oil paraffinic	64742-54-7	Asp. Tox. 1;H304
Amine aromatic, alkylated	68411-46-1	Repr. 2;H361f, Aquatic Chronic
		3;H412
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
hydrocarbons, low viscous	64742-94-5	Carc. 2;H351, Asp. Tox. 1;H304,
		STOT SE 3;H336, Aquatic Chronic
		2;H411
prim. alkanolamine ether	218141-16-3	Acute Tox. 4;H302, Skin Corr.
		1B;H314, Eye Dam. 1;H318, Aquatic
		Acute 1;H400, Aquatic Chronic
		1;H410; M-Factor (aquatic acute):
		100; M-Factor (aquatic chronic): 1
hydroxyethyl-alkylamine	71786-60-2	Acute Tox. 4;H302, Skin Corr.
		1C;H314, Eye Dam. 1;H318, Repr.
		2;H361d, Aquatic Acute 1;H400,

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Aquatic Chronic 1;H410; M-Factor
(aquatic acute): 10; M-Factor (aquatic
chronic): 10

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 Nota L/ Nota N 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:

nt for fire- 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, acid binders, 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

## 8. Exposure controls/ personal protection

# 8.1 Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
base oil, low viscous -	TWA	5 mg/m³	US. ACGIH Threshold Limit
Inhalable fraction.			Values, as amended (03 2014)
base oil, low viscous	PEL	500 ppm	US. OSHA Table Z-1 Limits for
		2,000 mg/m <sup>3</sup>	Air Contaminants (29 CFR
			1910.1000), as amended (02
			2006)
base oil, low viscous -	PEL	5 mg/m³	US. OSHA Table Z-1 Limits for
Mist.			Air Contaminants (29 CFR
			1910.1000), as amended (02
	T\A/A	100	2006)
base oil, low viscous	TWA	400 ppm	US. OSHA Table Z-1-A (29 CFR
han all lawydan ar	T\A/A	1,600 mg/m³	1910.1000), as amended (1989)
base oil, low viscous -	TWA	5 mg/m³	US. OSHA Table Z-1-A (29 CFR
Mist.  Base oil paraffinic	PEL	500 ppm	1910.1000), as amended (1989) US. OSHA Table Z-1 Limits for
base on paraminic	PEL	2,000 mg/m <sup>3</sup>	Air Contaminants (29 CFR
		2,000 mg/m²	1910.1000), as amended (02
			2006)
Base oil paraffinic -	PEL	5 mg/m³	US. OSHA Table Z-1 Limits for
Mist.	'	o mg/m	Air Contaminants (29 CFR
Wilde			1910.1000), as amended (02
			2006)
Base oil paraffinic	TWA	400 ppm	US. OSHA Table Z-1-A (29 CFR
'		1,600 mg/m <sup>3</sup>	1910.1000), as amended (1989)
Base oil paraffinic -	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR
Mist.		_	1910.1000), as amended (1989)
Base oil paraffinic -	PEL	5 mg/m³	US. OSHA Table Z-1 Limits for
Mist.			Air Contaminants (29 CFR
			1910.1000), as amended (01
			2017)
Base oil paraffinic -	TWA	5 mg/m³	US. OSHA Table Z-1-A (29 CFR
Mist.		1-00	1910.1000), as amended (1989)
hydrocarbons, low	PEL	500 ppm	US. OSHA Table Z-1 Limits for
viscous		2,000 mg/m <sup>3</sup>	Air Contaminants (29 CFR
			1910.1000), as amended (02
hudro corbono dos:	DEI	F	2006)
hydrocarbons, low viscous - Mist.	PEL	5 mg/m³	US. OSHA Table Z-1 Limits for
viscous - iviist.			Air Contaminants (29 CFR 1910.1000), as amended (02
			2006)
hydrocarbons, low	TWA	400 ppm	US. OSHA Table Z-1-A (29 CFR
viscous	' ' ' '	1,600 mg/m <sup>3</sup>	1910.1000), as amended (1989)
hydrocarbons, low	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR
viscous - Mist.	' ' ' ' '	J 1119/111	1910.1000), as amended (1989)
	1	ı	1.010.1000), as amonada (1000)

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hydrocarbons, low viscous - Inhalable fraction.	TWA	5 mg/m³	US. ACGIH Threshold Limit Values, as amended (03 2014)
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# 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 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:** Avoid contact with skin and eyes.

Goggles/face shield are

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

**Skin protection**Material: 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.

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**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

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 Form: liquid Color: Amber

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: substance/mixture is non-soluble (in

water)

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: 220°C, 428°F

Evaporation Rate: Not applicable for mixtures

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

Explosion Limit - Upper (%):

Explosion Limit - Lower (%):

Vapor pressure:

Relative vapor density:

Not applicable for mixtures

Solubility(ies)

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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 mm<sup>2</sup>/s (40°C, 104°F)

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.

**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

### Information on likely routes of exposure

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

## **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



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base oil, low viscous LD 50 (Rat): > 5.000 mg/kg (OECD

401)

Base oil paraffinic LD 50 (Rat): > 5,000 mg/kg

Amine aromatic, alkylated LD 50 (Rat): > 5,000 mg/kg (OECD

401)

Alkyl amine LD 50 (Rat): 1,350 mg/kg (OECD 401) hydrocarbons, low viscous LD 50 (Rat): 6,318 mg/kg (OECD 423)

**Dermal**Not classified for acute toxicity based

**Product:** on available data.

Specified substance(s)

Base oil paraffinic LD 50 (Rabbit): > 5,000 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 and mist

Skin Corrosion/Irritation

Product: Based on available data, the

classification criteria are not met.

Specified substance(s)

Base oil paraffinic OECD 404 Not irritant.

Alkyl amine OECD 404 (Rabbit, 14 d): Causes

severe skin burns.

Serious Eye Damage/Eye Irritation

Product: Based on available data, the

classification criteria are not met.

Specified substance(s)

Base oil paraffinic OECD 405 Not irritant.

Amine aromatic, alkylated OECD 405 (Rabbit): Not irritant.

**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)

Amine aromatic, alkylated No sensitizing effect (guinea pig);

**OECD 406** 

Alkyl amine No sensitizing effect (guinea pig);

OECD 406



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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 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 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.

Specified substance(s)

Base oil paraffinic: May be fatal if swallowed and enters airways.

### 12. Ecological information

General information: Not applicable

### 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

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Base oil paraffinic	LC 50 (Fish, 96 h): > 1	00 mg/l

Amine aromatic, alkylated LC 50 (Fish, 96 h): > 100 mg/l (OECD

203)

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

203)

hydrocarbons, low viscous LC 50 (Fish, 96 h): 2 - 5 mg/l 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

base oil, low viscous EL50 (Water Flea, 48 h): > 10,000

mg/I (OECD 202)

Base oil paraffinic EC 50 (Water Flea, 48 h): > 100 mg/l Amine aromatic, alkylated EC 50 (Daphnia magna): 51 mg/l

(OECD 202)

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

(OECD 202)

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

(OECD 202)

Chronic Toxicity

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)

Base oil paraffinic NOEC (Daphnia magna, 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 Specified substance(s)

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

base oil, low viscous NOEC (Alga, 72 h): > 100 mg/l (OECD

201)

Base oil paraffinic EC 50 (Algae, 72 h): > 100 mg/l

(OECD 201)

Amine aromatic, alkylated EC 50 (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

hydrocarbons, low viscous EC 50 (Alga, 72 h): 1 - 3 mg/l (OECD

201)

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

**Product:** Not applicable for mixtures

Specified substance(s)

Base oil paraffinic Not readily degradable.

Amine aromatic, alkylated

Alkyl amine

63 % (28 d, OECD 301D) Readily

Not readily degradable.

biodegradable

hydrocarbons, low viscous 58 % (28 d)

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.

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## 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.

TDG

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

WARNING! This product can expose you to chemicals including

NAPHTHALENE which is [are] known to the State of

California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

Inventory Status

DSL On or in compliance with the

inventory

TSCA On or in compliance with the

inventory

#### 16. Other information

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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.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
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.

#### 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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