



ZF LifeguardFluid 8.2

SECTION 1: Identification

Product identifier

Trade name

ZF LifeguardFluid 8.2

Article No.

0671.090.545

Recommended use of the chemical and restrictions on use

Product type

Mixture

Use

Gear oil

Not suitable for use in

No uses advised against identified.

Supplier's details

SDS created by

Global Division B Product Compliance Mgmt. System (BWC)

Supplier

ZF Services, LLC

Address

ZF Services Region North
America Headquarters
777 Hickory Hill Drive
Vernon Hills
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USA

Telephone

+1 847 478 6868

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msds.zf-aftermarket@zf.com

Contact person

Global Division B Product Compliance Mgmt. System (BWC)

Email address

msds.zf-aftermarket@zf.com



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Emergency phone number

1-800-222-1222 (general poison US emergency number) (+49) 89 19 240

Available outside office hours

Yes

SECTION 2: Hazard identification

Classification of the substance or mixture and any national or regional information

Classification according to Regulation (US HCS) 29 CFR 1910.1200

Classification

Reproductive toxicity, hazard category 2

Hazard statements

H361f

Description

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200): The product has been classified as hazardous according to the legislation in force.

Label elements, including precautionary statements

Labeling according to Regulation (US HCS) 29 CFR 1910.1200

Hazard pictograms



Signal word

Warning

Hazard statements

H361f Suspected of damaging fertility

Precautionary statements

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.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations..



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Other hazards which do not result in classification

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.



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SECTION 3: Composition/information on ingredients

Mixture

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
Hydrocarbons, low viscous	68037-01-4 500-183-1 01-2119486452-34-XXXX -	50 - <100%	Asp. Tox. 1	H304 - -		kinematic viscosity < 20.5 cSt 40 °C.
base oil, low viscous	72623-87-1 276-738-4 01-2119474889-13 649-483-00-5	20 - <50%	Asp. Tox. 1	H304 - -		-
Amine aromatic , alkylated	68411-46-1 270-128-1 01-2119491299-23 -	0.1 - <1%	Repr. 2, Aquatic Chronic 3	H361f, H412 - -		-
Alkyl amine	61791-44-4 - - -	0.01 - <1%	Acute Tox. 4 - oral, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2	H302, H314, H318, H400, H402 - -		M=10 (acute)
prim. alkanolamine ether	218141-16-3 - - -	0 - <0.1%	Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 1	H302, H314, H318, H410 - -		-

Product based on

Mixture containing severely refined base oils and additives.

Note: 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."



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Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First-aid measures

Description of necessary first-aid measures

Instantly remove any clothing soiled by the product.

Inhalation

Supply fresh air; consult doctor in case of symptoms.

Skin contact

Wash with soap and water.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion

Rinse mouth thoroughly.

Most important symptoms/effects, acute and delayed

May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Get medical attention if symptoms occur.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) 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.

Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products).

During fire, gases hazardous to health may be formed.



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Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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 in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

In case of spills, beware of slippery floors and surfaces.

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.

Methods and materials 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.

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.

SECTION 7: Handling and storage

Precautions for safe handling

Preventive handling precautions

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.

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.



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Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

See below OEL table.

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
base oil, low viscous - Inhalable fraction	- -	- / 5	US. ACGIH Threshold Limit Values, as amended (03 2014)	TWA	2014
base oil, low viscous	- -	500 / 2000	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006
base oil, low viscous - Mist.	- -	- / 5	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006
base oil, low viscous	- -	400 / 1600	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	TWA	1989



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base oil, low viscous - Mist.	- -	- / 5	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	TWA	1989
Base oil paraffinic - Inhalable fraction	- -	- / 5	US. ACGIH Threshold Limit Values, as amended (03 2014)	TWA	2014
Base oil paraffinic	- -	500 / 2000	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006
Base oil paraffinic - Mist.	- -	- / 5	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006
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Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
Base oil, paraffinic	- -	500 / 2000	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006
Base oil, paraffinic - Mist.	- -	- / 5	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006
Base oil, paraffinic	- -	400 / 1600	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	TWA	1989
Base oil, paraffinic - Mist	- -	- / 5	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	TWA	1989
Base oil, paraffinic - Inhalable fraction	- -	- / 5	US. ACGIH Threshold Limit Values, as amended (03 2014)	TWA	2014
Base oil, low viscous - Inhalable fraction.	- -	- / 5	US. ACGIH Threshold Limit Values, as amended (03 2014)	TWA	2014



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Base oil, low viscous - Mist	- -	- / 5	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	TWA	1989
Base oil - Inhalable fraction	- -	- / 5	US. ACGIH Threshold Limit Values, as amended (03 2014)	TWA	2014
Base oil - Mist.	- -	- / 5	US. OSHA Table Z-1 Lim- its for Air Con- taminants (29 CFR 1910.1000), as amended (02 2006)	PEL	2006



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Base oil, low viscous - Mist.	- -	- / 5	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	TWA	1989
Base oil, low viscous - Inhalable fraction.	- -	- / 5	US. ACGIH Threshold Limit Values, as amended (03 2014)	TWA	2014



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Appropriate engineering 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.

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.

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.

Personal Protective Equipment Symbols



Eye / face protection

Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

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 skin protection

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.



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Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Liquid

Colour

Amber

Odour

Characteristic

Odour threshold

Not applicable for mixtures

Melting point / freezing point

Not applicable for mixtures

Boiling point or initial boiling point and boiling range

Value not relevant for classification

Flammability

Value not relevant for classification [solid, gas]

Lower and upper explosion limit

Not applicable for mixtures

Flash point

> 200 °C / 392°F

Method

DIN EN ISO 2592

Auto-ignition temperature

Value not relevant for classification

Decomposition temperature

Value not relevant for classification

pH

substance/mixture is non-soluble (in water)



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Kinematic viscosity

25 mm²/s (40 °C)

Solubility

No data available

Water solubility

Insoluble in water

Partition coefficient n-octanol/water

Not applicable for mixtures

Vapour pressure

Not applicable for mixtures

Density and/or relative density

0.83 g/cm³ (20 °C)

Relative vapour density

Not applicable for mixtures

Evaporation Rate

Not applicable for mixtures

Explosive properties

Value not relevant for classification

Oxidising properties

Value not relevant for classification

Particle characteristics

No data available

Other information

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal use conditions.

Chemical stability

Stable under normal use conditions.



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Possibility of hazardous reactions

Stable under normal use conditions.

Conditions to avoid

Stable under normal use conditions.

Incompatible materials

Strong oxidizing substances. Strong acids. Strong bases.

Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11. Toxicological information

Information on the likely routes of exposure

Acute toxicity

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

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
Hydrocarbons, low viscous -	LD50	> 5000 mg/kg	oral	-	Rat	-
base oil, low vis- cous -	LD50	> 5001 mg/kg	oral	-	Rat	OECD 401
Amine aromatic , alkylated -	LD50	> 5000 mg/kg	oral	-	Rat	OECD 401
Alkyl amine -	LD50	1350 mg/kg	oral	-	Rat	OECD 401
Hydrocarbons, low viscous -	LC50	> 5 mg/l	Inhalation	4 hr [Dust and mist]	Rat	-

Skin corrosion/irritation

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



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Product / Substance name CAS / EC no.	Result	Duration of exposure	Species	Method / Guideline
Alkyl amine -	Causes severe skin burns	14 d	Rabbit	OECD 404

Serious eye damage/irritation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Amine aromatic , alkylated -	Not irritant.	Rabbit	Amine aromatic , alkylated

Respiratory or skin sensitisation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Amine aromatic , alkylated -	No sensitizing effect	guinea pig	OECD 406.
Alkyl amine -	No sensitizing effect	guinea pig	OECD 406

Germ cell mutagenicity

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

Carcinogenicity

Based on available data, the classification criteria are not 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

OSHAS: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified

Reproductive toxicity

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

STOT-single exposure

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



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STOT-repeated exposure

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

Aspiration hazard

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

Information on other hazards

No data available

SECTION 12: Ecological information

Toxicity

Acute toxicity

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

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Hydrocarbons, low viscous -	LC50	> 750 mg/l	96 hr	Fish	-
base oil, low viscous -	LC50	> 100 mg/l	96 hr	Fish	OECD 203
Amine aromatic , alkylated -	LC50	> 100 mg/l	96 hr	Fish	OECD 203
Alkyl amine -	LC50	0.1 mg/l	96 hr	Fish	OECD 203

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Hydrocarbons, low viscous -	EC50	> 1000 mg/l	72 hr	Algae	-



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Amine aromatic , alkylated -	EC50	> 100 mg/l	72 hr	Algae	OECD 201
Alkyl amine -	EC50	0.0538 mg/l	72 hr	Algae	OECD 201

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Hydrocarbons, low viscous -	EC50	190 mg/l	48 hr	Water Flea	-
Amine aromatic , alkylated -	EC50	51 mg/l	48 hr	Daphnia magna	OECD 202
Alkyl amine -	EC50	0.043 mg/l	48 hr	Water Flea	OECD 202

Chronical toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
base oil, low viscous -	NOEC	> 1000 mg/l	14 d	Fish	-
base oil, low viscous -	NOEC	10 mg/l	21 d	Water Flea	OECD 211
## missing translation for substance name ## -	EC10	0.0107 mg/l	21 d	Water Flea	OECD 211
base oil, low viscous -	NOEC	> 100 mg/l	72 hr	Algae	OECD 201



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Alkyl amine -	NOEC	0.0156 mg/l	72 hr	Algae	-

Persistence and degradability

Not applicable for mixtures

Product / Substance name CAS / EC no.	Duration	Result	Degradation	Method / Guideline
Amine aromatic , alkylated -	-	Not readily degradable	-	-
Alkyl amine -	28 d	Readily biodegradable	63 %	OECD 301D

Bioaccumulative potential

Not applicable for mixtures

Mobility in soil

Mobility

Not applicable for mixtures

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

No data available

Other adverse effects

No data available.



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SECTION 13: Disposal considerations

Disposal methods

Disposal considerations

Dispose in accordance with all applicable regulations.

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

UN number

UNRTDG: Not regulated.

US DOT: Not regulated.

UN proper shipping name

ADR / RID / ADN proper shipping name

Not regulated.

IMDG proper shipping name

Not regulated.

IATA proper shipping name

Not regulated.

Transport hazard class(es)

Label

Not regulated.

ADR / RID Class

Not regulated.

IMDG Class

Not regulated.

IATA Class

Not regulated.

ADN Class

Not regulated.

Packing group

Not regulated.



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Environmental hazards

No

IMDG Marine Pollutant

No

Special precautions for user

Not Applicable.

Transport in bulk according to IMO instruments

Not Applicable.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

EU regulations

Not Applicable.

National regulations

SARA 302/304: Composition/information on ingredients: No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312: Classification: Not Applicable.

TSCA 12(b) - Chemical export notification: Not Applicable.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed.

Clean Air Act Section 602 Class I Substances : Not listed.

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulations, limitations and legal regulations

Inventory Status:

TSCA: On or in compliance with the inventory

DSL: On or in compliance with the inventory

NDSL: Not in compliance with the inventory.

Chemical safety assessment

No data available



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SECTION 16: Other information

Phrase meaning

Repr. 2 - Reproductive toxicity, hazard category 2
Asp. Tox. 1 - Aspiration hazard, hazard category 1
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Corr. 1C - Skin corrosion, hazard category 1C
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
Skin Corr. 1B - Skin corrosion, hazard category 1B
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
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.
H361f Suspected of damaging fertility
H400 Very toxic to aquatic life.
H402 Harmful to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Other

Additional information

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.