



# ZF LifeguardFluid CVT 1

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

### 1.1. Product identifier

**Trade name**

ZF LifeguardFluid CVT 1

**Article No.**

5961.308.626

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

**Product type**

Mixture.

**Relevant identified uses**

Lubricant.

**Not suitable for use in**

No uses advised against identified.

### 1.3. Details of the supplier of the safety data sheet

**SDS created by**

Global Division B Product Compliance Mgmt. System (BWC)

**Supplier**

ZF Aftermarket

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### **Email**

msds.zf-aftermarket@zf.com

### **1.4. Emergency telephone number**

(+49) 89 19 240 - available in German and English

### **Available outside office hours**

Yes

## SECTION 2: Hazards identification

### **2.1. Classification of the substance or mixture**

#### **Description**

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

### **2.2. Label elements**

#### **Supplemental hazard statements**

EUH210 Safety data sheet available on request.

### **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.

Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
Base oil, low viscous	64742-55-8 265-158-7 01-2119487077-29 649-468-00-3	20 - <50%	Asp. Tox. 1	H304 - -		-
base oil, low viscous	72623-87-1 276-738-4 01-2119474889-13 649-483-00-5	1 - <10%	Asp. Tox. 1	H304 - -		-
Base oil, low viscous	72623-86-0 276-737-9 01-2119474878-16 649-482-00-X	1 - <10%	Asp. Tox. 1	H304 - -		L
base oil, paraffinic	64742-56-9 265-159-2 01-2119480132-48 649-469-00-9	1 - 10%	Asp. Tox. 1	H304 - -		L
Tolyl triazole	29385-43-1 249-596-6 01-2119979081-35 -	0.1 - <1%	Acute Tox. 4 - oral, Repr. 2, Aquatic Chronic 2	H302, H361d, H411 - -		-

**Substance additional information**

Mixture containing severely refined base oils and additives.

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.

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



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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Instantly remove any clothing soiled by the product.

#### **Inhalation**

Supply fresh air, consult a doctor in case of discomfort.

#### **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.

### 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

CO<sub>2</sub>, 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 protective equipment for fire-fighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special firefighting 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.



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## SECTION 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

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, 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.

## SECTION 7: Handling and storage

### 7.1. 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.

### 7.2. Conditions for safe storage, including any incompatibilities

Local regulations concerning handling and storage of water polluting products have to be followed. Do not heat up to temperatures close to the flash point.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ***Exposure limits***

Occupational exposure limits: No occupational exposure limit assigned.

Biological Limit Values (BLV): No exposure indices known.



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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 air-borne 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.

### **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:  $\geq 480$  min

Recommended thickness of the material:  $\geq 0.38$  mm.

### **Other skin protection**

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.

### **Respiratory protection**

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

### **Thermal hazards**

Not known.

### **Environmental exposure controls**

No data available.

## Other

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 foot-wear that cannot be cleaned.

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state**

Liquid

**Colour**

Amber.

**Odour**

Characteristic.

**Melting point / freezing point**

Not determined.

**Boiling point or initial boiling point and boiling range**

Not determined.

**Flammability**

Not determined.

**Lower and upper explosion limit**

No data available

**Flash point**

208 °C

**Auto-ignition temperature**

Not determined.

**Decomposition temperature**

Not determined.

**pH**

substance/mixture is non-soluble (in water).

**Kinematic viscosity**

34 mm<sup>2</sup>/s

**Method**

40 °C

**Solubility**

Insoluble (water); not available (other solvents)

**Partition coefficient n-octanol/water**

Not applicable for mixtures.



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### **Vapour pressure**

Not applicable for mixtures.

### **Density and/or relative density**

0.85 g/cm<sup>3</sup>

### **Method**

15 °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**

Not applicable.

## **9.2. Other information**

No data available.

## **SECTION 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 oxidising substances, strong acids and strong bases.

### **10.6. Hazardous decomposition products**

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



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## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Not classified for acute toxicity based on available data. ( Oral ; Inhalation. )

ATE (Dermal) : 92949 mg/kg

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
base oil, low viscous -	LD50	> 5000 mg/kg	Dermal	-	Rabbit	OECD 402	-
Base oil par-affinic -	LD50	> 5000 mg/kg	-	-	Rabbit	-	-
base oil, low viscous -	LC50	> 5.53 mg/l	Inhalation.	4 hr	Rat.	-	Dust and mist respirator.
Base oil par-affinic -	LC50	> 5 mg/l	Inhalation.	4 hr	Rat.	-	-
base oil, low viscous -	LD50	5001 mg/kg	Oral.	-	Rat.	OECD 401	-
Base oil par-affinic -	LD50	> 5000 mg/kg	Oral.	-	Rat.	-	-
Tolyl triazole -	LD50	720 mg/kg	Inhalation.	-	Rat.	OECD 401	-

#### **Skin corrosion/irritation**

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Tolyl triazole -	Not irritating.	Rabbit	OECD 404

#### **Serious eye damage/irritation**

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



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Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Tolyl triazole -	Not irritating.	Rabbit	OECD 405

### **Respiratory or skin sensitisation**

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Tolyl triazole -	Not a sensitizer.	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.

### **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.

### **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.

## **11.2. Information on other hazards**

### **Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Other information**

No data available.



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## SECTION 12: Ecological information

### 12.1. Toxicity

#### **Acute toxicity**

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

#### **Acute fish toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
base oil, low viscous -	LC50	> 100 mg/l	96 hr.	Fish.	OECD 203
Base oil paraffinic -	LC50	> 101 mg/l	96 hr.	Fish.	-
Tolyl triazole -	LL50	180 mg/l	96 hr.	Fish.	-

#### **Acute algae toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Tolyl triazole -	EL50	75 mg/l	72 hr.	Algae.
Tolyl triazole -	EC10	1.18 mg/l	72 hr.	Algae.

#### **Acute crustacean toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
base oil, low viscous -	EL50	> 10.000 mg/l	48 hr.	Water Flea.
Tolyl triazole -	EL50	8,58 mg/l	48 hr.	Water Flea.

#### **Chronical toxicity**

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



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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
base oil, low viscous -	NOEL	1000 mg/l	14 days	Fish.	-
base oil, low viscous -	NOEC	10 mg/l	21 days	Water Flea.	OECD 211
Tolyl triazole -	EC10	0.4mg/l	21 days	Water Flea.	-
base oil, low viscous -	NOEC	> 100 mg/l	72 hr	Algae.	OECD 201

## 12.2. Persistence and degradability

Not applicable for mixtures.

Product / Substance name CAS / EC no.	Duration	Result	Degradation	Method / Guideline
Tolyl triazole -	28 days	4%	Not readily biodegradable.	OECD 301F

## 12.3. Bioaccumulative potential

Not applicable for mixtures.

## 12.4. Mobility in soil

### Mobility

Not applicable for mixtures.

## 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration  $\geq 0,1$  %.

## 12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7. Other adverse effects

No data available

## Other

The classification of this product is based all or in part on test data



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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Disposal considerations**

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.

Waste code	Waste description
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

## SECTION 14: Transport information

### 14.1. UN number

Not regulated.

### 14.2. UN proper shipping name

#### **ADR / RID / ADN proper shipping name**

Not regulated.

### 14.3. Transport hazard class(es)

#### **Label**

Not regulated.

#### **ADR / RID Class**

Not regulated.

#### **ADR / RID Classification code**

Not regulated.

#### **ADR / RID hazard identification number**

Not regulated.

#### **IMDG Class**

Not regulated.

#### **IATA Class**

Not regulated.

#### **ADN Class**

Not regulated.



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### **ADN Class Code**

Not regulated.

### **14.4. Packing group**

Not regulated.

### **14.5. Environmental hazards**

Not regulated.

### **IMDG Marine Pollutant**

Not regulated.

### **14.6. Special precautions for user**

Not regulated.

### **14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

## SECTION 15: Regulatory information

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **EU regulations**

Ozone depleting substances (1005/2009/EU): None.

Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None.

Regulation (EC) No 2024/590 on substances that deplete the ozone layer, ANNEX I REGULATED SUBSTANCES: None.

Prior Informed Consent (PIC) (649/2012/EU): None.

#### **National regulations**

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit)

Regulations 2019: none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020: none

### **15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

### **Other**

DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances: Not applicable.



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## SECTION 16: Other information

### **Phrase meaning**

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Repr. 2 - Reproductive toxicity, hazard category 2

Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2

Asp. Tox. 1 - Aspiration hazard, hazard category 1

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H361d Suspected of damaging the unborn child

H411 Toxic to aquatic life with long lasting effects.

EUH210 Safety data sheet available on request.

### **Other**

#### **Additional information**

The classification is in accordance with the valid EC lists, however, it has been supplemented with information from specialist literature sources and information provided by the company. The following methods have been used for the assessment: - Based on test data - Calculation method - Transfer principle "Substantially similar mixtures" - Expert judgement.

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.