

# SAFETY DATA SHEET

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



**Product name: ZF LifeguardFluid 7.1 MB ATF**

ZF Aftermarket

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: ZF LifeguardFluid 7.1 MB ATF

Product code: 5961.307.351

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

Identified uses: Lubricant

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**

### 1.4 Emergency telephone number

#### 24/7h Emergency telephone number:

(+49) 89 19 240 (Poison call - information in German and English)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

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

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

Hazard summary

**Physical Hazards: No data available.**

### 2.2 Label Elements

EUH210: Safety data sheet available on request.

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### 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

### 3.1 Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	REACH Registration No.
base oil, low viscous	EINECS: 276-738-4	50,00% - <100,00%	01-2119474889-13

\* 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 viscous	EINECS: 276-738-4	CLP: Asp. Tox. 1;H304

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

## 4. First aid measures

### 4.1 Description of first aid measures

General: Instantly remove any clothing soiled by the product.

Inhalation: Supply fresh air; consult doctor in case of symptoms.

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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.

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### 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 firefighting procedures: Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Collect contaminated firefighting 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.

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### **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, 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 section**

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.

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### **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 incompatibility**

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):**

No data available.

Storage Class: 10, Combustible liquids

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## 8. Exposure controls/personal protection

### 8.1 Control Parameters

Occupational Exposure Limits: None of the components have assigned exposure limits.

### 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 in handling the chemicals or the mineral oil products.

**Eye/face protection:** Safety glasses (EN 166) recommended during refilling.

#### **Skin protection**

**Hand Protection:** Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0,38$  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

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	safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
<b>Other:</b>	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
<b>Respiratory Protection:</b>	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
<b>Thermal hazards:</b>	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
Form:	liquid
Color:	Red
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 (%)-:	Value not relevant for classification

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Flammability Limit - Lower (%)-:	Value not relevant for classification
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0,84 g/cm <sup>3</sup> (15 °C)
<b>Solubility(ies)</b>	
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:	29,6 mm <sup>2</sup> /s (40 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification

### 9.2 Other information

No data available

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## 10. Stability and reactivity

<b>10.1 Reactivity</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions</b>	Stable under normal use conditions.
<b>10.4 Conditions to avoid</b>	Stable under normal use conditions.
<b>10.5 Incompatible Materials</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product:

Oral

Not classified for acute toxicity based on available data.

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Dermal Not classified for acute toxicity based on available data.

Inhalation Not classified for acute toxicity based 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:

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

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

#### **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.



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### 12. Ecological information

#### 12.1 Toxicity

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

Product: Based on available data, the  
Chronic Toxicity: classification criteria are not 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)

Toxicity to Aquatic Plants  
Specified substance(s)  
**base oil, low viscous** NOEC (Alga, 72 h): > 100 mg/l (OECD  
201)

#### 12.2 Persistence and Degradability

Product: Not applicable for mixtures  
Biodegradation

#### 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

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

#### 12.6 Other adverse effects

No data available.

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Water Hazard Class (WGK):

WGK 2: significantly water-endangering.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

General information:

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.

Örtliche Gesetze Abfallkatalog

European Waste Codes

13 02 05\*: mineral-based non-chlorinated engine, gear and lubricating oils

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## 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:	--

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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: --

#### IATA

14.1 UN Number: --  
14.2 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

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## 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): WGK 2: significantly water-endangering.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

