



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

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

1.1. Product identifier

Trade name

ZF LIFEGUARD FLUID 7.1 MB ATF

Article No.

5961.307.351

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

Address

ZF Friedrichshafen AG
Obere Weiden 12

97424 Schweinfurt
Germany

Telephone

+49 9721 475 60

Email

msds.zf-aftermarket@zf.com

Web site

www.zf.com/contact

Contact person

Global Division B Product Compliance Mgmt. System (BWC)



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

Email

msds.zf-aftermarket@zf.com

1.4. Emergency telephone number

+49 89 19 240 - available in German and English; 112

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Description

Classification according to GHS: (Rev. 8) The product is not classified as hazardous.

2.2. Label elements

The product does not require labelling in accordance with 8th revision of GHS.

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.

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

The substance/mixture does not contain components considered to have endocrine disrupting properties.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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
Base oil, low viscous	72623-87-1 276-738-4 01-2119474889-13 649-483-00-5	50 - <100%	Asp. Tox. 1	H304 - -		-
Base oil, low viscous	64742-54-7 265-157-1 01-2119484627-25 649-467-00-8	1 - <10%	Asp. Tox. 1	H304 - -		ATE (oral): >5000 mg/kg; ATE (dermal): >5000 mg/kg; ATE (inhalation): 5 mg/kg

Product based on

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.

Substance additional information

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

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.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

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

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.

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 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

6.1. Personal precautions, protective equipment and emergency procedures

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



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

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: Not known.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

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.

Individual protection measures:

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: ≥ 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

Not known.

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.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Red.

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

Not applicable for mixtures.

Flash point

200 °C

Auto-ignition temperature

Not determined.

Decomposition temperature

Not determined.

pH

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

Kinematic viscosity

29.6 mm²/s (40 °C)

Solubility

Insoluble (water); No data available (other solvents).

Partition coefficient n-octanol/water

Not applicable for mixtures.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

Vapour pressure

Not applicable for mixtures.

Density and/or relative density

0.84 g/cm³ (15 °C)

Relative vapour density

Not applicable for mixtures.

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.

SECTION 11: Toxicological information

11.1. Toxicological information

Acute toxicity

Not classified for acute toxicity based on available data.



ZF LIFEGUARD

FLUID 7.1 MB ATF

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
base oil, low viscous -	LD50	> 5000 mg/kg	Oral.	Rat	OECD 401
Base oil paraffinic -	LD50	> 5000 mg/kg	Oral.	Rat	-
Base oil paraffinic -	LD50	> 5000 mg/kg	Dermal	Rabbit	-

Skin corrosion/irritation

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

Product / Substance name CAS / EC no.	Result	Method / Guideline
Base oil paraffinic -	Not irritating.	OECD 404

Serious eye damage/irritation

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

Product / Substance name CAS / EC no.	Result	Method / Guideline
Base oil paraffinic -	Not irritating.	OECD 405

Respiratory or skin sensitisation

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

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.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

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.

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

11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties at levels of 0.1% or higher.

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
Base oil paraffinic -	LC50	> 100 mg/l	96 hr.	Fish.

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Base oil paraffinic -	EC50	> 100 mg/l	72 hr	Algae.	OECD 201

Acute crustacean toxicity

**SAFETY DATA SHEET**

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1**Issued:** 2026-07-07

ZF LIFEGUARD

FLUID 7.1 MB ATF

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
base oil, low viscous -	EL50	> 10,000 mg/l	48 hr.	Water Flea.	OECD 202
Base oil paraffinic -	EC50	> 100 mg/l	48 hr.	Water Flea.	-

Chronical toxicity

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

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 days	Fish.	-
base oil, low viscous -	NOEC	10 mg/l	21 days	Water Flea.	OECD 211
Base oil paraffinic -	NOEC	10 mg/l	21 days	Daphnia magna	OECD 211
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.	Degradation
Base oil paraffinic -	Not readily degradable.

12.3. Bioaccumulative potential

Not applicable for mixtures.

12.4. Mobility in soil**Mobility**

Not applicable for mixtures.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

12.5. Results of PBT and vPvB assessment

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 at levels of 0.1% or higher.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

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.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

IMDG Class

Not regulated.

IATA Class

Not regulated.

ADN Class

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.

IMDG EmS

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

National regulations

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

SECTION 16: Other information

Abbreviations

Abbreviations and acronyms used in the safety data sheet: ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative.

Phrase meaning

Asp. Tox. 1 - Aspiration hazard, hazard category 1
H304 May be fatal if swallowed and enters airways.



SAFETY DATA SHEET

According to 8th revision of GHS and
Egyptian standard ES 8398:2020

Version number: 1

Issued: 2026-07-07

ZF LIFEGUARD FLUID 7.1 MB ATF

Other

Additional information

The classification complies with the current GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging 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.

This Safety Data Sheet is based on our current knowledge and is intended to describe the product in terms of health, safety, and environmental requirements only.