



SAFETY DATA SHEET

Conformément au Règlement sur les
produits dangereux (RPD), DORS/2015-17

In accordance with the Hazardous Products
Regulations (HPR), SOR/2015-17.

Version number: 1

Issued: 2026-09-04

ZF ECOFLUID LIFE PLUS

SECTION 1: Identification

Product identifier

Trade name

ZF ECOFLUID LIFE PLUS

Article No.

AA01.320.098; AA01.320.099; 0671.090.575

Recommended use of the chemical and restrictions on use

Product type

Mixture.

Use

Transmission oil.

Not suitable for use in

This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

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
60061 Illinois
USA

Telephone

+1 847 478 6868

Email

msds.zf-aftermarket@zf.com



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Contact person

Global Division B Product Compliance Mgmt. System (BWC)

Email address

msds.zf-aftermarket@zf.com

Emergency phone 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

Description

This material is not classified as hazardous under the Hazardous Products Regulations (HPR), Canada WHMIS 2022.

Label elements, including precautionary statements

More information

This product does not require labeling according to the Hazardous Products Regulations (HPR), Canada WHMIS 2015.

No Hazard Symbol required

No signal word.

No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

*In accordance with the Hazardous Products
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SECTION 3: Composition/information on ingredients

Mixture

Chemical name	CAS No. EC No. REACH No. Index No.	Concentra- tion	Classification	H-phrased M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
Interchangeable low viscosity base oil (<20,5 cSt @40°C)*	- - - -	0 - 90%	Asp. Tox. 1	H304 - -		-
Ethoxylated amine	61791-44-4 263-177-5 - -	0.01 - 0.1%	Acute Tox. 4 - oral, Skin Corr. 1C, Aquatic Acute 1, Aquatic Chronic 1	H302, H314, H400, H410 - -		-
Alkoxylated alkylamine	30113-45-2 - - -	0.01 - 0.1%	Acute Tox. 4 - oral, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1	H302, H314, H400, H410 M-acut=100 M-chro=1		M=100 M(C hronic)=1
Dimantine	124-28-7 204-694-8 01-2119486676- 20 -	0.01 - 0.1%	Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, H314, H318, H400, H410 M-acut=10 M-chro=1		M(Chronic) =1 M=10



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Product based on

Chemical nature: Synthetic base oil and additives.

Highly refined mineral oil.

The highly refined mineral oil is only present as an additive thinner.

DMSO < 3% (IP 346)

* contains one or more of the following CAS-numbers (REACH registration numbers): 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020163-82), 68649-12-7 (01-2119527646-33), 151006-60-9 (01-2119523580-47), 163149-28-8 (01-2119543695-30), 64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30).

Substance additional information

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual

concentration range(s) are being withheld as a trade secret. 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

Inhalation

No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Skin contact

Remove contaminated clothing.

Flush exposed area with water and follow by washing with soap if available.

If persistent irritation occurs, obtain medical attention.

Eye contact

Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue rinsing.

If persistent irritation occurs, obtain medical attention.

Ingestion

In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.



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Most important symptoms/effects, acute and delayed

Symptoms: Skin sensitisation (allergic skin reaction) signs and symptoms may include itching and/or a rash.

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.

Ingestion may result in nausea, vomiting and/or diarrhea.

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

When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

Notes to physician: Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet.

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

Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and gases (smoke).

Carbon monoxide may be evolved if incomplete combustion occurs.

Unidentified organic and inorganic compounds.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Environmental precautions

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately.

Prevent from spreading by making a barrier with sand, earth or other containment material.

Reclaim liquid directly or in an absorbent.

Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

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

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Avoid prolonged or repeated contact with skin.

Avoid inhaling vapour and/or mists.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.



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Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.

Store at ambient temperature.

Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Strong oxidizing agents.

Packaging material: Suitable material: For containers or container linings, use mild steel or high density polyethylene.

Unsuitable material: PVC.

Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

See below OEL table.

Biological Limit Values (BLV): None specific.

Appropriate engineering controls



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Appropriate engineering controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General information: Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Monitoring Methods: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods
<http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods
<http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances
<http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany
<http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

protective measures: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.



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Personal Protective Equipment Symbols



Eye / face protection

If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

For continuous contact we recommend gloves with break-through time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Other skin protection

Skin protection is not ordinarily required beyond standard work clothes.
It is good practice to wear chemical resistant gloves.

Respiratory protection

No respiratory protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.

Check with respiratory protective equipment suppliers.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Select a filter suitable for combined particulate/organic gases and vapours [Type A/Type P boiling point > 65°C (149°F)] meeting EN14387 and EN143.



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Thermal hazards

Not applicable.

Environmental exposure controls

Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being dis-charged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Clear, bright liquid.

Colour

Clear.

Odour

Slight hydrocarbon

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

> 280 °C

Method

estimated value(s)

Flammability

Not applicable (solid, gas); Not classified as flammable but will burn (liquids)).

Lower and upper explosion limit

Typique 1 % (V);

Typique 10 % (V)



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Flash point

230 - 245 °C

Auto-ignition temperature

> 320 °C

Decomposition temperature

No data available

pH

Not applicable.

Kinematic viscosity

35 mm²/s (40.0 °C);

6.8 - 7.3 mm²/s (100 °C)

Method

ASTM D445

Solubility

No data available

Water solubility

negligible (water); not available (other solvents)

Partition coefficient n-octanol/water

log Pow: > 6 [based on information on similar products.]

Vapour pressure

< 0.5 Pa (20 °C) [estimated value(s)]

Density and/or relative density

828 - 836 kg/m³

Method

DIN EN ISO 12185

Relative density

0.828 - 0.836 (15 °C)

Relative vapour density

> 1

Method

estimated value(s)



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Explosive properties

Not classified.

Particle characteristics

No data available

Other information

Pour point: -57 °C [DIN ISO 3016]

Conductivity: This material is not expected to be a static accumulator.

SECTION 10: Stability and reactivity

Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph

Chemical stability

Stable.

Possibility of hazardous reactions

Strong oxidizing agents.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No decomposition if stored and applied as directed.



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SECTION 11. Toxicological information

Information on the likely routes of exposure

Information given is based on data on the components and the toxicology of similar products.
Unless indicated otherwise, the data presented is representative of the product as a whole, rather
than for individual com-ponent(s).

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	Test animals	Remarks
ZF ECOFLUID LIFE PLUS -	LD50	> 5,000 mg/kg	Oral.	Rat.	Low toxicity
ZF ECOFLUID LIFE PLUS -	LD50	> 5,000 mg/kg	Dermal	Rabbit	Low toxicity

Skin corrosion/irritation

Slightly irritating to skin. Prolonged or repeated skin contact without proper cleaning can clog the
pores of the skin resulting in disorders such as oil acne/folliculitis.

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

Serious eye damage/irritation

Slightly irritating to the eye.

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

Respiratory or skin sensitisation

Not sensitizing.

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

Germ cell mutagenicity

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



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Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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.

Routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Information on other hazards

Other information

Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

Slightly irritating to respiratory system.

Classifications by other authorities under varying regulatory frameworks may exist.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).



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SECTION 12: Ecological information

Toxicity

Acute toxicity

Based on available data, the classification criteria are not met.
Ecotoxicological data have not been determined specifically for this product.
Information given is based on data on the components and the toxicology of similar products.
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual com-ponent(s).

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species	Remark
ZF ECOFLUID LIFE PLUS -	LL/EL/IL50	>10 <= 100 mg/l	Fish.	Harmful.

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species	Remark
ZF ECOFLUID LIFE PLUS -	LL/EL/IL50	>10 <= 100 mg/l	Algae.	Harmful.

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species	Remark
ZF ECOFLUID LIFE PLUS -	LL/EL/IL50	>10 <= 100 mg/l	Daphnia magna	Harmful.

Chronical toxicity

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



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Persistence and degradability

Not readily biodegradable.

Major constituents are inherently biodegradable, but contains components that may persist in the environment.

Persistent per IMO criteria.

International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distills at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

Bioaccumulative potential

Contains components with the potential to bioaccumulate.

Mobility in soil

Mobility

Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.

Floats on water.

Results of PBT and vPvB assessment

No data available

Endocrine disrupting properties

No data available

Other adverse effects

Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential. Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Poorly soluble mixture.

Causes physical fouling of aquatic organisms.



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SECTION 13: Disposal considerations

Disposal methods

Disposal considerations

Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Do not dispose into the environment, in drains or in water courses.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.

Waste, spills or used product is dangerous waste.

Waste arising from a spillage or tank cleaning should be dis-posed of in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination. MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Packaging

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Other

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14: Transport information

UN number

Not regulated.



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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.

Environmental hazards

No.

IMDG Marine Pollutant

No.

Special precautions for user

Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

Transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.



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SECTION 15: Regulatory information

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

EU regulations

Not applicable.

National regulations

No data available

Other regulations, limitations and legal regulations

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Inventory list:

United States inventory (TSCA 8b): All components are listed or exempted.

DSL: All components are listed or exempted.

Chemical safety assessment

No data available

SECTION 16: Other information

Phrase meaning

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

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

Skin Corr. 1C - Skin corrosion, hazard category 1C

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1

Skin Corr. 1B - Skin corrosion, hazard category 1B

Eye Dam. 1 - Serious eye damage, 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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.



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Other

Additional information

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