

SAFETY DATA SHEET

According to the amended version of Regulation (EC) No 1907/2006 (REACH) Article 31 Annex II.



ZF Aftermarket

Trade name: ZF LifeguardFluid 7.7 DCT

1. According to the amended version of Regulation (EC) No 1907/2006 (REACH) Article 31 Annex II.

1.1 Product identifier

Trade name: ZF LifeguardFluid 7.7 DCT

Product name: AA02.914.175

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

Intended Use: Gear oil

Identified uses: Not applicable.

Uses advised against: This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.

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

24/7 Emergency information/emergency number:

(+49) 89 19 240 (Poison Centre – in English and German)

2. Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to UK CLP/GHS

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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Signal word:

No signal word.

Hazard statements:

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Prevention:

P273 - Avoid release to the environment.

Response:

Not applicable.

Storage:

Not applicable.

Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements:

Contains phosphoric acid esters, amine salt. May produce an allergic reaction.

None.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Special packaging requirements

Containers to be fitted with child-resistant fastenings:

Not applicable.

Tactile warning of danger:

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification:

None known.

Note:

This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

3. Composition/information on ingredients

3.2 Mixtures:

Mixture.

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Product/ingredient name	Identifiers	%	Classification	Type
1-decene, tetramer and trimer hydrogenated	REACH #: 01-2119527646-33 EC: 614-695-9 CAS: 68649-12-7	≥50 - ≤75	Asp. Tox. 1, H304	[1] [2]
1-dodecene, polymer with 1-octene, hydrogenated olefin sulphide	CAS: 163149-29-9 UK (GB) REACH #: UK-01-2783246473-2 REACH #: 01-2119540515-43 EC: 273-103-3 CAS: 68937-96-2	≥25 - ≤50 ≤5	Not classified. Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[2] [1]
phosphoric acid esters, amine salt	UK (GB) REACH #: UK-01-3357647710-4 REACH #: 01-2119493620-38 EC: 931-384-6	≤2.4	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
distillates (petroleum), hydrotreated heavy paraffinic	UK (GB) REACH #: UK-01-1759217276-5 REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7	≤3	Asp. Tox. 1, H304	[1] [2]
n-tallow-1,3-diaminopropane	REACH #: 01-2119487014-41 EC: 629-719-3 CAS: 61791-55-7	≤0.3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 2, H373 (gastrointestinal tract, lymphatic system) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
phosphoric acid, 2-ethylhexyl ester	REACH #: 01-2119896587-13 EC: 235-741-0 CAS: 12645-31-7	≤0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]
amines, n-tallow alkyltrimethylenedi-, c4-18-alkyl phosphates	REACH #: 01-2120810847-50 EC: 271-672-2 CAS: 68603-74-7	≤0.3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1)	[1]

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amines, n-c16-c18-alkyl-(even numbered, c18 unsaturated) propane-1,3-diaminium di[(9z)-octadec-9-enoate	REACH #: 01-2119974117-33 EC: 800-362-7 CAS: 1307863-78-0	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	[1]
amines, tallow alkyl	REACH #: Exempt EC: 263-125-1 CAS: 61790-33-8	≤0.084	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

4. First aid measures

4.1 Description of first aid measures

Eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. If irritation persists, get medical attention.

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Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact:

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe.

Ingestion:

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by

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Protection of first-aiders:

mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation: No specific data

Skin contact: Adverse symptoms may include the following:

Irritation, redness, Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, sulfur oxides

5.3 Advice for firefighters

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Special protective actions for fire-fighters:	Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent reignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop
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up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill:

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

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Protective measures:

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Static Accumulator :

This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100×10^{-12} Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations: Not available

Industrial sector specific solutions: Not available

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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Product/ingredient name	Exposure limit values
1-decene, tetramer and trimer hydrogenated	TWA: 5 mg/m ³ 8 hours. Form: Aerosols (thoracic fraction)
1-dodecene, polymer with 1-octene, Hydrogenated	TWA: 5 mg/m ³ 8 hours. Form: Aerosols (thoracic fraction)
distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Recommended monitoring procedures: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
distillates (petroleum), hydrotreated heavy paraffinic	DNEL	Long term Inhalation	1.2 mg/m ³	General Population	Local
	DNEL	Long term Inhalation	5.4 mg/m ³	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
distillates (petroleum), hydrotreated heavy paraffinic	DNEL	Long term Inhalation	1.2 mg/m ³
	DNEL	Long term Inhalation	5.4 mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne Contaminants.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume

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scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protect

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume

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scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties and safety characteristics

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	Liquid
Colour:	Amber
Odour:	Characteristic
Odour threshold:	Not available.
pH:	Not applicable.
Melting point/freezing point:	Not available.
Boiling point, initial boiling point, and boiling range:	>315.56°C (>600°F)
Flash point:	Open cup: 180°C (356°F) [ASTM D-92]
Evaporation rate:	Not available.
Flammability:	Ignitable
Lower and upper explosive (flammable) limits:	Lower: 0.9% Upper: 7%
Vapour pressure:	<0.1 mm Hg [20 °C]
Relative vapour density:	>2 [Air = 1]
Relative density:	0.849 [ASTM D4052]
Solubility in water:	Negligible
Partition coefficient: n-octanol/ water:	>3.5
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	81 cSt [40 °C] [ASTM D 445] 14.2 cSt [100 °C] [ASTM D 445]

Particle characteristics

Median particle size:	Not applicable.
Pour point:	-48°C [ASTM D97]

10. Stability and reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: The product is stable

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- 10.3 Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid:** High energy sources of ignition. Excessive heat.
- 10.5 Incompatible materials:** Strong oxidisers
- 10.6 Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.0 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary

Inhalation: Minimally Toxic. No end point data for material. Based on assessment of the components.

Dermal: Minimally Toxic. No end point data for material. Based on assessment of the components.

Oral: Minimally Toxic. No end point data for material. Based on assessment of the components.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
PD MOBILUBE PTX 75W-90 (EU2) <C>	>5000	N/A	N/A	N/A	N/A
phosphoric acid esters, amine salt	500	N/A	N/A	N/A	N/A
n-tallow-1,3-diaminopropane phosphoric acid, 2-ethylhexyl ester	500 2500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
amines, n-tallow alkyltrimethylenedi-, c4-18-alkyl	500	N/A	N/A	N/A	N/A
amines, tallow alkyl	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary

Skin: Mildly irritating to skin with prolonged exposure. No end point data for material. Based on assessment of the components.

Eyes: May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components.

Respiratory: Negligible hazard at ambient/normal handling temperatures. No end point data for material.

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Sensitisation

Conclusion/Summary

Skin: Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.

Respiratory: Not expected to be a respiratory sensitizer. No end point data for material

Mutagenicity

Conclusion/Summary: Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.

Carcinogenicity

Conclusion/Summary: Not expected to cause cancer. No end point data for material. Based on assessment of the components.

Reproductive toxicity

Conclusion/Summary Not expected to be a reproductive toxicant. No end point data for material. Based on assessment of the components.

Specific target organ toxicity (single exposure)

Not available.

Conclusion/Summary: Not expected to cause organ damage from a single exposure. No end point data for material.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-tallow-1,3-diaminopropane	Category 2	-	gastrointestinal tract, lymphatic system
amines, n-c16-c18-alkyl-(even numbered, c18 unsaturated) propane-1,3-diaminium di[(9z)-octadec-9-enoate]	Category 2	-	-
amines, tallow alkyl	Category 2	-	gastrointestinal tract, immune system, liver

Conclusion/Summary: Not expected to cause organ damage from prolonged or repeated exposure. No end point data for material. Based on assessment of the components.

Aspiration hazard

Product/ingredient name	Result
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1-decene, tetramer and trimer hydrogenated distillates (petroleum), hydrotreated heavy paraffinic amines, tallow alkyl	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
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Conclusion/Summary: Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. Data available.

Information on likely routes of exposure: Not available.

Other information

Contains: Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans.

12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

12.1 Toxicity

Conclusion/Summary

Acute toxicity: Toxic to aquatic life

Chronic toxicity: Harmful to aquatic life with long lasting effects

12.2 Persistence and degradability

Not determined.

12.3 Bioaccumulative potential

Not determined.

12.4 Mobility in soil

Mobility: Base oil component -- Expected to partition to sediment and wastewater solids. Low solubility and floats and is expected to migrate from water to the land.

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.

12.6 Other adverse effects

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

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Product:

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Yes

Waste catalogue

<u>Waste code</u>	<u>Waste designation</u>
13 02 06*	synthetic engine, gear and lubricating oils

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

Packaging:

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Special precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14. Transport information

SAFETY DATA SHEET

According to the amended version of Regulation (EC) No 1907/2006 (REACH) Article 31 Annex II.



Trade name: ZF LifeguardFluid 7.7 DCT

ZF Aftermarket

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (olefin sulphide, phosphoric acid esters, amine salt)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN: The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

Not applicable.

15. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

SAFETY DATA SHEET

According to the amended version of Regulation (EC) No 1907/2006 (REACH) Article 31 Annex II.



ZF Aftermarket

Trade name: ZF LifeguardFluid 7.7 DCT

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: None.

Seveso Directive:

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) – Air: Listed.

Industrial emissions (integrated pollution prevention and control) – Water: Not listed.

Inventory list

Australia inventory (AIIIC): All components are listed or exempted.

Canada inventory (DSL-NDSL): Restrictions Apply

China inventory (IECSC): All components are listed or exempted

Japan inventory (CSCL): All components are listed or exempted

Japan inventory (Industrial Safety and Health Act): All components are listed or exempted

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted

Philippines inventory (PICCS): All components are listed or exempted

Korea inventory (KECI): All components are listed or exempted

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted

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

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration

SAFETY DATA SHEET

According to the amended version of Regulation (EC) No 1907/2006 (REACH) Article 31 Annex II.



Trade name: ZF LifeguardFluid 7.7 DCT

ZF Aftermarket

RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification Classification

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1 ASPIRATION HAZARD - Category 1
Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B SKIN SENSITISATION - Category 1B
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2