



ZF LifeguardFluid 8.3 DCT

Version number: 1
Issued: 2026-08-10

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

1.1. Product identifier

Trade name

ZF LifeguardFluid 8.3 DCT

Article No.

0671.090.471

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

Product type

Mixture.

Relevant identified uses

Gear oil.

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)



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Email

msds.zf-aftermarket@zf.com

1.4. Emergency telephone number

+49 (0)89 19240 Information in German and English

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Hazardous to the aquatic environment — Chronic hazard category 2

Hazard statements

H411

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard statements

EUH208 Contains reaction products of 4-methyl-2pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c12-14-tert-alkyl.. May produce an allergic reaction.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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



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More information

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

2.3. Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
Dec-1-ene, homopolymer, hydrogenated	68037-01-4 500-183-1 01-2119486452-34-XXXX -	≥50 - ≤75%	Asp. Tox. 1	H304 - -		kinematic viscosity < 20.5 cSt 40 °C.
olefin sulphide	68937-96-2 273-103-3 01-2119540515-43 -	0 - ≤5%	Skin Sens. 1B, Aquatic Chronic 3	H317, H412 - -	Skin Sens. 1B, H317: C ≥ 46%	-
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	- 931-384-6 01-2119493620-38 -	0 - ≤3%	Acute Tox. 4 - oral, Skin Sens. 1, Eye Irrit. 2, Aquatic Chronic 2	H302, H317, H319, H411 - -	Skin Sens. 1, H317: C ≥ 9.39% Eye Irrit. 2, H319: 50% < C ≤ 100% ATE [Oral]: 500 mg/kg bw	-
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25	0 - ≤3%	Asp. Tox. 1	H304 - -		ATE (oral): >5000 mg/kg; ATE



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Chemical name	CAS No. EC No. REACH No. Index No.	Concentra- tion	Classification	H-phrase M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
	649-467-00-8					(dermal): >5000 mg/kg; ATE (inhal- ation): 5 mg/kg
O,O,O-triphenyl phos- phorothioate	597-82-0 209-909-9 01-2119979545- 21-0000 -	0 - ≤1%	Aquatic Chronic 1	H410 - M-chro=10		PBT (per- sistent, bioaccumu- lative and toxic sub- stance). Regulation (EC) No. 1907/2006, REACH Art- icle 59(1). Candidate List.
phosphoric acid esters, amine salt	92623-72-8 943-540-0 01-2120120371- 74 -	>0 - <1%	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 2	H317, H400, H411 M-acut=1 -		Skin Sens. 1, H317 C ≥ 13%

Product based on

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.

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

No action shall be taken involving any personal risk or without suitable training.



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Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

Wash skin thoroughly with soap and water or use recognized skin cleanser. 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.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

No specific data.

Skin contact

Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

Eye contact

No specific data.

Ingestion

No specific data.

4.3. Indication of any immediate medical attention and special treatment needed

No specific treatment.

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



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SECTION 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

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic organisms. 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

Special protective equipment 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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 spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized 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. Collect spillage.

6.3. Methods and material for containment and cleaning up

Small Spillages: Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor.

Large Spillages: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. 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 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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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

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).

Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid contact of spilled material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.

General 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 (100x10E-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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds:

Danger criteria:

Category: E2

Notification and MAPP threshold: 200 tonnes

Safety report threshold: 500 tonnes

7.3. Specific end use(s)

No specific recommendations.

Industrial sector specific solutions: Not available.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

Occupational exposure limits: See below OEL table.

Recommended monitoring procedures: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
1-decene, homopolymer hydrogenated. Form: Aerosols (thoracic fraction).	- -	- / 5	Supplier evaluation	TWA 8 hours:	-
Distillates (petroleum), hydrotreated heavyparaffinic. Form: Aerosols (thoracic fraction).	- -	- / 5	ACGIH TLV (United States, 1/2024) [Min- eral Oil, pure, highly and severely refined]	TWA 8 hours	2024

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
distillates (petroleum), hydrotreated heavy paraffinic (-/-)	DNEL	Chronic (long term) Inhalation	1.2 mg/m ³	Consumers	Local
distillates (petroleum), hydrotreated heavy paraffinic	DNEL	Chronic (long term) Inhalation	5.4 mg/m ³	Workers	Local



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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
(-/-)					

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
distillates (petroleum), hydrotreated heavy paraffinic (-/-)	PNEC	Oral (Secondary Poisoning)	9.33 mg/kg food

8.2. Exposure controls

Appropriate engineering controls

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

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.

Personal Protective Equipment Symbols



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: safety glasses with side-shields. EN 166.

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.



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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.

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.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Brown.

Odour

Characteristic.

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

>315.56°C (>600°F)

Flammability

Ignitable



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Lower and upper explosion limit

Lower: 0.9%

Upper: 7%

Flash point

Open cup: 180°C (356°F)

Method

ASTM D-92

Auto-ignition temperature

No data available

Decomposition temperature

No data available

pH

Not applicable.

Kinematic viscosity

81 cSt [40 °C] [ASTM D 445]

14.2 cSt [100 °C] [ASTM D 445]

Solubility

No data available

Water solubility

negligible (water); not available (other solvents)

Partition coefficient n-octanol/water

>3.5

Vapour pressure

<0.1 mm Hg [20 °C]

Density and/or relative density

No data available

Relative density

0.849

Method

ASTM D4052

Relative vapour density

>2 [Air = 1]

Particle characteristics

Not applicable.



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9.2. Other information

Pour point: -48°C [ASTM D97]

SECTION 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

Stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Avoid excessive heat. Remove sources of ignition.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

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

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route
ZF LifeguardFluid 8.3 DCT -	ATEmix	>5000 mg/kg	Oral
reaction products of 4-methyl- 2pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by	LD50	500 mg/kg	Oral



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route
amines, c12-14-tert-alkyl -			

Skin corrosion/irritation

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

Serious eye damage/irritation

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

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.

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

Not available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.



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Other information

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

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Toxic to aquatic life.

Chronical toxicity

Toxic 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.

The product does not meet the criteria to be considered as a PMT or vPvM.

Product / Substance name CAS / EC no.	KOC
O,O,O-triphenyl phosphorothioate -	49128.4 log Koc: 4.69

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB.

Product / Substance name CAS / EC no.	PBT / vPvB
1-decene, homopolymer hydrogenated -	PBT: No. vPvB: N/A
olefin sulphide	PBT: No.



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Product / Substance name CAS / EC no.	PBT / vPvB
-	vPvB: N/A
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	PBT: No. vPvB: N/A
-	
Distillates (petroleum), hydrotreated heavy paraffinic	PBT: No. vPvB: N/A
-	
O,O,O-triphenyl phosphorothioate	PBT: Yes. vPvB: N/A
-	
phosphoric acid esters, amine salt	PBT: No. vPvB: N/A
-	

12.6. Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7. Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The generation of waste should be avoided or minimized 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.

Packaging

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



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Waste code	Waste description
13 02 06*	synthetic engine, gear and lubricating oils

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

Other

Special precautions:

SECTION 14: Transport information

14.1. UN number

UN 3082

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (o,o,otriphenyl phosphorothioate, phosphoric acid esters, amine salt)

IMDG proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (o,o,otriphenyl phosphorothioate, phosphoric acid esters, amine salt)

IATA proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (o,o,otriphenyl phosphorothioate, phosphoric acid esters, amine salt)

14.3. Transport hazard class(es)

Label

9

ADR/RID/ADN



9



Environmental hazard

ADR / RID hazard identification number

90



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ADN Class

This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Special provisions: 274, 335, 375, 601

14.4. Packing group

III

14.5. Environmental hazards

Yes.

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. Maritime transport in bulk according to IMO instruments

Not applicable.

Other

Additional information ADR-RID

This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Limited quantity: 5 L
Special provisions: 274, 335, 601, 375.

Additional information IMDG

This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Emergency schedules: F-A, S-F
Special provisions: 274, 335, 969

Additional information IATA (ICAO)

This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Limited quantity: Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.
Special provisions: A97, A158, A197, A215



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SECTION 15: Regulatory information

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

EU regulations

Annex XIV - List of substances subject to authorization: None of the components are listed.

Substances of very high concern (SVHC): O,O,O-triphenyl phosphorothioate

Intrinsic property: PBT

References: D(2024) 7663-DC

Revision: 1/21/2025

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

Other EU regulations:

Explosive precursors: Not applicable.

Seveso Directive: Yes.

National regulations

No data available

Other regulations, limitations and legal regulations

Australia inventory (AIIC): 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.

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.



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SECTION 16: Other information

Phrase meaning

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

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

Skin Sens. 1 - Skin sensitisation, hazard category 1

Eye Irrit. 2 - Eye irritation, hazard category 2

Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

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

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

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

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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.

EUH208 Contains reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl.. May produce an allergic reaction.

Other

Additional information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.