



Transmission Oil manual transmission

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.
Product Reference code:93165290
Revision date: 3/21/2024 Supersedes: 5/25/2022 Version: 2.03

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

1.1. Product identifier

Product form : Mixture
Product name : Transmission Oil manual transmission
Product code : 93165290
Synonyms : Getriebeöl Schaltgetriebe / Manual Transmission Oil / Huile d'engrenage boîte de vitesse
Product group : Technical oils

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Used in the automobile industry

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of product safety information sheet

Name : Stellantis Auto SAS
2-10 bd de l'Europe
78300 Poissy

Inquiry office

IFZ Ingenieurbüro und Consulting GmbH

E-mail : OPEL-helpdesk@ifz-berlin.de
Telephone: +49 30 / 2904897-10

1.4. Emergency telephone number

Emergency number : +49 61 31 19240
United Kingdom +44 870 600 626 / 0870 600 6266

Further information

Apply safety data sheet to the following products:

Part-No.	Catalogue-No.	amount
93165290	19 40 182	1 L
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Precautionary statements (GB CLP) : P262 - Do not get in eyes, on skin, or on clothing.
P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

EUH-statements (GB CLP) : EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards which do not result in classification : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with UK REACH Annex XIII

Component	
phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)	The product does not meet the PBT and vPvB classification criteria
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	The product does not meet the PBT and vPvB classification criteria
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	The product does not meet the PBT and vPvB classification criteria

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Contains : Highly refined mineral oils (IP 346 DMSO extract < 3 %) and additive



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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 UK Index-No.: 649-483-00-5	50 – 75	Acute Tox. Not classified (Inhalation:vapour) Carc. Not classified Asp. Tox. 1, H304
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	CAS-No.: 72623-86-0 EC-No.: 276-737-9	1 – 5	Carc. Not classified Asp. Tox. 1, H304
phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt	CAS-No.: 68909-93-3 EC-No.: 272-723-1	1 – 2.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

Comments

: Contains one or more of the following CAS numbers: CAS: 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 (“Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method” Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice. Show this safety data sheet to the doctor in attendance. If unconscious, place the person in the recovery position and seek medical advice immediately. Do not administer liquids to the unconscious person and avoid vomiting. Protection is needed for the First Aider (Protective gloves, chemical-resistant; Safety glasses). In case of insufficient ventilation, wear suitable respiratory equipment. Eye wash fountains and safety showers must be easily accessible.

First-aid measures after inhalation

: When high concentrations of oil mist, smoke or vapour are inhaled, e.g. in the case of aerosol formation: Move to fresh air. Lay the affected person down, and keep her or him warm and calm. Get medical attention if symptoms occur.

First-aid measures after skin contact

: Wash skin with soap and water or special cleanser. Take off contaminated clothing and wash it before reuse. Thoroughly clean shoes before re-using. In the case of skin irritation or allergic reactions see a physician.

First-aid measures after eye contact

: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist.



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First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Lay the affected person down and keep her or him still; If unconscious, place the person in the recovery position. Never give anything by mouth to an unconscious person. Immediate medical attention.

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

Symptoms/effects after inhalation : When high concentrations of oil mist, smoke or vapour are inhaled, e.g. in the case of aerosol formation: May be irritating to the respiratory system.

Symptoms/effects after skin contact : Drying out of the skin due to defatting. Prolonged skin contact may defat the skin and produce dermatitis. Skin contact with the product may cause acne.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating. Main symptoms: Burning sensation. Redness of the eye tissue.

Symptoms/effects after ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Symptomatic treatment (decontamination and vital functions). If necessary, contact poison centre.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂), dry chemical powder, foam.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Keep away from heat and sources of ignition. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material).

Explosion hazard : pressure rise and possible bursting of container. Risk of explosion! On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.

Hazardous decomposition products in case of fire : Depending on the conditions of the fire, the following combustion products could be formed/ given off: carbon monoxide (CO), carbon dioxide (CO₂). The inhalation of hazardous decomposition products may cause serious health damage.

5.3. Advice for firefighters

Precautionary measures fire : Secure the danger area. Evacuate personnel to safe areas. Only to be handled by trained personnel.

Firefighting instructions : Damp down released vapours with water spray. Remove intact containers immediately from the dangerous area and/or cool them with water. Cool to prevent reignition. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent extinguishing water used by the fire department, or any other forms of the diluted product, from ending up in surface water or drinking water reservoirs. Prevent product from entering drains.



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Protection during firefighting	: Do not breathe in the vapours and combustion gases. In the event of fire, wear self-contained breathing apparatus. Complete protection suit and compressed air breathing apparatus. Clothing for firefighters which comply with the European norm EN 469 (including helmet, protective boots, protective gloves) provide a basic protection for accident with chemicals. Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus.
Other information	: Contaminated extinguishing water and soil must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: No action shall be taken involving any personal risk or without suitable training. Eliminate all ignition sources if safe to do so. Secure the danger area. Keep unprotected persons away. Do not touch or walk on the spilled product. Spills of this product present a serious slipping hazard. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe in vapours or spray mist. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Higher exposure: Use breathing apparatus. Wear self-contained breathing apparatus and chemical protective suit at all times. Chemical-resistant safety shoes or boots.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Seal discharge point, if possible without danger. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Contact the responsible authority immediately if the product ends up in the soil, a body of water, or the sewer system. In case of an accident or when the street is contaminated with the product, notify the fire department and police department, and when necessary, the water protection authorities.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak without risks if possible. Contain the product immediately by taking suitable action.
Methods for cleaning up	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Small amounts: Adsorption in inert material (e.g. sand, kieselguhr, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal. Large amounts: Spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. Move containers from spill area. Keep in suitable, closed containers for disposal. Dispose of the material collected according to regulations.

6.4. Reference to other sections

Emergency contact : See Section 1. Suitable protective equipment : See section 8. see section(s) : 5, 12. For further information refer to section 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Keep product and empty container away from heat and sources of ignition. Cleaning cloths, paper or other materials that are used for absorption can become a potential fire hazard. Dispose of the material collected according to regulations.
Precautions for safe handling	: When handling the product, follow hygiene and safety precautions. Use only in well-ventilated areas. Do not inhale vapours or smoke of heated product. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing. See also section 8. Keep container tightly closed. Handle all packages and containers carefully to minimise spills. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material).
Hygiene measures	: A high standard of personal hygiene is required. Avoid bringing product in contact with the skin. Do not drink, eat or smoke in the workplace. 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. Take off contaminated clothing and shoes immediately. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace. Eye wash fountains and safety showers must be easily accessible.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in compliance with the local regulations. Keep in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Avoid contamination with incompatible materials. (See Section 10). Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not use unlabelled containers.
Heat and ignition sources	: Do not store near heat sources or expose to high temperatures.
Information on mixed storage	: Store separately from: oxidising compounds.
Storage area	: Smoking in the storage rooms is forbidden. Local regulations concerning handling and storage of water polluting products have to be followed.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available



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8.1.4. DNEL and PNEC

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DNEL/DMEL (additional information)	
Additional information	No data available.
PNEC (additional information)	
Additional information	No data available.

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide sufficient air exchange and/or exhaust in work rooms. Follow the maximum workplace concentration values. Respiratory protection measures are required when large amounts of the product are used, when the product is used in enclosed spaces or under any other circumstances, in which the explosion limit concentration is approached or even surpassed. (EN 689, EN 14042, EN 482).

8.2.2. Personal protection equipment

Personal protective equipment - Report preview:

Personal protection equipment should comply with the relevant standards, be suitable for purpose, in good condition and maintained as specified.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection - Report preview:

Wear eye protection. Safety glasses with side-shields/Face shield (EN 166).

8.2.2.2. Skin protection

Skin and body protection - Report preview:

Wear suitable protective clothing. Light protective clothing : Anti-static clothing made of natural fibres (cotton) or heat-resistant synthetic fibres. (Overalls). Higher exposure: Use chemically protective clothing. Chemical resistant apron. Chemical-resistant safety shoes or boots.

Hand protection - Report preview:

Wear protective gloves. Wear suitable gloves. Chemically resistant protective gloves (according to European standard EN 374 or equivalent). The manufacturer recommends the following glove materials: nitrile rubber. Penetration time of the glove material: > 240 min or > 480 min (At long continual or frequent contact). Layer thickness: > 0.35 mm. Thicker gloves may be necessary, when a higher risk (mechanical or chemical) of abrasion or puncturing exists. (Layer thickness: > 3 mm). Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer. Please note that the daily use of a chemical glove in practice may be considerably shorter than the permeation time calculated in EN 374 as a result of many different factors (for example temperature). Protective gloves should be replaced immediately if damaged or in case of signs of wear. Gloves must be replaced after each use and whenever signs of wear or perforation appear



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8.2.2.3. Respiratory protection

Respiratory protection - Report preview:

In case of insufficient ventilation, wear suitable respiratory equipment. (EN 529). Breathing apparatus with filter : Respirator with combination filter for vapour/particulate. (EN 14387). Particle filter (EN 143). Half-mask (EN 149, EN 140, EN 405). Higher exposure: Full face mask (EN 136). The respiratory protective equipment should be selected considering the local working conditions. See information supplied by the manufacturer.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Emission from ventilation and process equipment should be tested to make sure that it fulfils the requirements of environmental protection regulation. Do not discharge the product into the environment. See Section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: red.
Odour	: No data available.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Flash point	: > 202 °C (Cleveland Open Cup Method ASTM D 92)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 72.9 mm ² /s (at 40 °C) / 13.5 mm ² /s (at 100 °C)
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: < 1 g/cm ³ (at 15 °C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)

Flash point	193 °C Atm. press.: 760 mm Hg
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lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Boiling point	207 – 750 °C Atm. press.: 101,325 kPa
Flash point	98 – 344 °C Atm. press.: 101,325 kPa



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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Vapour pressure	< 0.1 hPa Temp.: 20 °C
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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Boiling point	207 – 750 °C Atm. press.: 101,325 kPa
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Flash point	98 – 344 °C Atm. press.: 101,325 kPa
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Vapour pressure	< 0.1 hPa Temp.: 20 °C
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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0 % VOC Directive 2004/42/EC
Additional information : Pour point : -45 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions occur under normal storage conditions and in normal use. Does not polymerize.

10.4. Conditions to avoid

Keep away from heat and sources of ignition. Keep away from sparks and flames. Thermal decomposition can lead to release of irritating gases and vapours.

10.5. Incompatible materials

Reacts with : oxidizing materials.

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 toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified



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Acute toxicity (inhalation) : Not classified

phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)

LD50 oral rat	3600 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	13800 mg/kg bodyweight (OECD 402 method)
ATE GB CLP (oral)	3600 mg/kg bodyweight
ATE GB CLP (dermal)	13800 mg/kg bodyweight

lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 5000 mg/kg (OECD 402 method)

lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 5000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403 method)

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Not classified
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 STOT-single exposure : Not classified
 STOT-repeated exposure : Not classified

phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)

NOAEL (oral, rat, 90 days)	160 mg/kg bodyweight (OECD 422 method)
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lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight (OECD 408 method)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air (OECD 412 method)

lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight (OECD 408 method)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air (OECD 412 method)

Aspiration hazard : Not classified

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Viscosity, kinematic	72.9 mm ² /s (at 40 °C) / 13.5 mm ² /s (at 100 °C)
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lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Viscosity, kinematic	> 2 mm ² /s (at 40 °C)
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

: Because of the low volatility, inhalation of the product is unlikely at normal surrounding temperatures, At high temperatures, vapours can form in concentrations which can be hazardous to health, At high concentrations, the vapours can be irritating to the respiratory system

Experience with humans

: Drying out of the skin due to defatting, Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product, skin irritation and erythema, Cracking of the skin

Other information

: Swallowing large amounts can be detrimental to health, Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea, Contact with eyes may cause irritation, Redness of the eye tissue

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)

LC50 - Fish [1]	46 mg/l Cyprinodon variegatus (sheepshead minnow) - (OECD 203 method)
EC50 - Crustacea [1]	5.4 mg/l Daphnia magna (Water flea) - (OECD 202 method)
EC50 72h - Algae [1]	2.1 mg/l Pseudokirchneriella subcapitata - (OECD 201 method)/(EPA OTS 797.1050)
EC50 72h - Algae [2]	2 mg/l Pseudokirchneriella subcapitata - (OECD 201 method)/(EPA OTS 797.1050)
EC50 96h - Algae [1]	2.1 mg/l Pseudokirchneriella subcapitata - (OECD 201 method)/(EPA OTS 797.1050)
EC50 96h - Algae [2]	2 mg/l Pseudokirchneriella subcapitata - (OECD 201 method)/(EPA OTS 797.1050)
LOEC (chronic)	0.4 – 0.8 mg/l 21 d - Daphnia magna (Water flea) - (OECD 211 method)

lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

LC50 - Fish [1]	> 100 mg/l Pimephales promelas - (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (Water flea) - (OECD 202 method)
NOEC (chronic)	≥ 1000 mg/l Daphnia magna (Water flea) - (OECD 211 method)
NOEC chronic fish	≥ 1000 mg/l Oncorhynchus mykiss (Rainbow trout) - (Quantitative structure-activity relationship (QSAR))
NOEC chronic algae	≥ 100 mg/l Raphidocelis subcapitata - (OECD 201 method)



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lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

LC50 - Fish [1]	> 100 mg/l Pimephales promelas - (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (Water flea) - (OECD 202 method)
NOEC (chronic)	≥ 1000 mg/l Daphnia magna (Water flea) - (OECD 202 method)
NOEC chronic fish	≥ 100 mg/l Pimephales promelas - (OECD 203 method)
NOEC chronic algae	≥ 100 mg/l Raphidocelis subcapitata - (OECD 201 method)

12.2. Persistence and degradability

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Persistence and degradability	Rapidly degradable
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phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)

Persistence and degradability	Not readily biodegradable.
Biodegradation	1.5 % (28 d) - (OECD 301B method)/(Test method EU C.4-C)

lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Persistence and degradability	Not readily biodegradable.
Biodegradation	2 – 4 % 28 d - (OECD 302B method)

lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Persistence and degradability	Not readily biodegradable.
Biodegradation	2 – 4 % 28 d - (OECD 301B method)

12.3. Bioaccumulative potential

phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)

Partition coefficient n-octanol/water (Log Kow)	0.84 (OECD 107 method)
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lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Partition coefficient n-octanol/water (Log Pow)	1.99 – 18.02 (Quantitative structure-activity relationship (QSAR))/(KOWWIN v1.68)
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lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Partition coefficient n-octanol/water (Log Pow)	1.99 – 18.02 (Quantitative structure-activity relationship (QSAR))/(KOWWIN v1.68)
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12.4. Mobility in soil

lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.7 – 14.7 (Quantitative structure-activity relationship (QSAR))
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lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.71 – 14.7 (Quantitative structure-activity relationship (QSAR))
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12.5. Results of PBT and vPvB assessment

Component

phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt (68909-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6. Endocrine disrupting properties

No additional information available

12.7. Endocrine disrupting properties

Other adverse effects	: Do not allow material to contaminate ground water system. Danger of drinking-water pollution (ground water). If the product gets into the earth it remains mobile and can damage the ground water.
Additional information	: May form an oil film that cause the oxygen content to fall, thus harming the aquatic ecosystem. Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Disposal in accordance with the official regulations. Recovery or recycling, if possible. Offer surplus and non-recyclable solutions to a licensed disposal company. Do not flush into surface water or sanitary sewer system. Unclean packing materials, just as the empty containers: Hantera och öppna behållare försiktigt. Packaging can be sent for recycling after being emptied and cleaned. Emptied containers can contain residues of product. Empty containers can contain flammable and explosive vapours. Do not burn, or use a cutting torch on the empty drum. The containers must be sealed, marked and disposed of safely. Prevent leakage. Should not be released into the environment.
Additional information	: Waste code numbers are a recommendation, since the intended use by the consumer allows a final assignment.
European List of Waste (LoW, EC 2000/532)	: 13 02 08* - other engine, gear and lubricating oils 15 01 02 - plastic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID



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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
not regulated	not regulated	not restricted	not regulated	not regulated
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Transport document description				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant: No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable



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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ; phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt ; lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	phosphorus dithionic acid, O,O-di-alkyl ester (C1-C14), zinc salt	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : Not subject to 2012/18/EU (SEVESO III)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 0 % VOC Directive 2004/42/EC

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)



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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. United Kingdom

UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Indication of changes (UK):

All chapters have been modified since the previous version.

Abbreviations and acronyms:

	ATE = Acute Toxicity Estimate
	DNEL = Derived No Effect Level
	PNEC = Predicted No-Effect Concentration
	NOEL = No Observed Effect Level
	NOEC = No-Observed-Effect-Concentration
	NOAEL = No Observed Adverse Effect Level
	LOAEL = Lowest Observed Adverse Effect Level
	SADT = Self-Accelerating decomposition temperature
	SVHC = substance of very high concern
	VOC = Volatile organic compounds
	IUCLID = International Uniform Chemical Information Database
	OECD = Organization for Economic Co-operation and Development
	RTECS = Registry of Toxic Effects of Chemical Substances
	RTECS = Registry of Toxic Effects of Chemical Substances
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	EINECS = European Inventory of Existing Commercial Chemical Substances



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Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. Not classified	Carcinogenicity Not classified
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Other information :

The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The product is to be used exclusively for the applications named in the technical data sheet or in the processing instructions. Existing laws and regulations are the responsibility of the recipient of our products. The data of the hazardous ingredients were taken from the last relevant safety data sheet of the subcontractor.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.