

Transmission Oil Profimax classic

Product Reference code:104153

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Issue date: 5/4/2021 Version: 1.00



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

1.1. Product identifier

Product form : Mixture
Name : Transmission Oil Profimax classic
Product code : 104153
Product group : Technical oils

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Synthetic lubricants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Name MULAG Fahrzeugwerk Heinz Wössner GmbH & Co. KG
Gewerbestr. 8
77728 Oppenau - Deutschland

Telephone +49 7804 913-0

E-mail info@mulag.de

Inquiry office

MULAG Fahrzeugwerk Heinz Wössner GmbH & Co. KG
Telephone: +49 7804 913-0

1.4. Emergency telephone number

Emergency number +49 (0) 761 19240
Universitätsklinikum Freiburg (VIZ), 24 h Notdienst

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P262 - Do not get in eyes, on skin, or on clothing.
P273 - Avoid release to the environment.

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards which do not result in classification : Excessive exposure can cause eye, skin or respiratory tract irritation.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Blend based on : synthetic oil and additive

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : In case of feeling unwell: obtain medical attention. 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 mist, spray or aerosol exposure, wear suitable personal respiratory protection and protective suit. Eye wash fountains and safety showers must be easily accessible.
- First-aid measures after inhalation : Move out of dangerous area. Protection is needed for the First Aider. Move unconscious persons to fresh air using self-contained breathing apparatus. Lay the affected person down, and keep her or him warm and calm. Consult a doctor when respiratory tract irritation, dizziness, nausea or unconsciousness occurs. Perform mouth-to-mouth resuscitation when victim has stopped breathing. Oxygen or artificial respiration, if needed.
- First-aid measures after skin contact : Wash off with soap and plenty of water immediately. Remove all contaminated clothes and shoes. Do not use solvents or thinners. If skin irritation persists, call a physician. If the product comes into contact with damaged skin, it can penetrate across further tissue layers. Consult a doctor in this case, also when no obvious injury is determinable.
- First-aid measures after eye contact : Flush eye(s) immediately with plenty of water. Remove contact lenses after the first 1 - 2 minutes and continue flushing. If eye irritation persists, consult a specialist.
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. If symptoms persist, call a physician.

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

- Symptoms/effects after skin contact : Prolonged skin contact can lead to defatting of the skin or to irritation. Skin contact with the product may cause acne.
- Symptoms/effects after eye contact : Temporary irritation of the eyes possible.
- Symptoms/effects after ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Chronic symptoms : When injected under the skin, consult a doctor immediately. High pressure injection of product under the skin can have very serious consequences even without apparent symptoms or injuries. The injuries initially do not seem serious, but within a few hours the tissue swells, discolours and is extremely painful, together with strong sub-cutaneous necrosis. You must check whether surgical action is indicated. A hand surgeon must be consulted as soon as possible if the injuries are in the hand area.

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), foam, water spray, powder.
- Unsuitable extinguishing media : High volume water jet. Do not spray direct into storage containers as a result of the risk of splashes and the spread of the fire.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Depending on the conditions of the fire, the following combustion products could be formed/given off: fume, carbon oxides, sulphur oxides, aldehydes. Incomplete incineration and thermolysis produces toxic gases.

5.3. Advice for firefighters

- Firefighting instructions : Secure the danger area. Evacuate personnel to a safe area. Damp down released vapours with water spray. Cool it down with water spray if affected by fire.
- Protection during firefighting : In the event of fire and/or explosion, do not breathe in fumes. In the event of fire, wear self-contained breathing apparatus. (SCBA). 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.

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Other information : 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. Do not empty into drains. 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 : Remove all sources of ignition. Slipping hazard due to leakage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours, mists or smoke. Wear suitable gloves and eye/face protection. In case of mist, spray or aerosol exposure, wear suitable personal respiratory protection and protective suit.

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

In the case of larger amounts: dike far ahead of liquid spill for later recovery and disposal. Entry into rivers or surface water is to be prevented by the erection of barriers made of sand or earth or by other suitable barriers. Prevent product from entering drains. 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 : Seal discharge point, if possible without danger. The spread of the product is to be prevented by oil barriers or dikes.

Methods for cleaning up : On land: spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. In the event of large-scale leakage, pump into suitable and properly labeled containers. On water: remove the product from the water surface by skimming or suitable adsorption products. If necessary, use suitable dispersion agents in flowing water by agreement with the authorities. Use a spark-free tool. Dispose of the material collected according to regulations.

6.4. Reference to other sections

Suitable protective equipment: see section 8. Dispose of as described in section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : This material is a static accumulator. Preparation may charge electrostatically: always use grounding wire when transferring from one container to another. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Use a spark-free tool. Empty containers can contain residues of product. Keep product and empty container away from heat and sources of ignition. Empty containers can contain flammable and explosive vapours. Avoid sparks and static charges. Do not burn, or use a cutting torch on the empty drum.

Precautions for safe handling : Keep container tightly closed. Avoid spillage and leakage due to the risk of slipping. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Avoid bringing product in contact with the skin. Use personal protective equipment. When handling the product, follow hygiene and safety precautions.

Hygiene measures : A high standard of personal hygiene is required. Keep the work place clean. When using, do not eat, drink, or smoke. Avoid prolonged and intensive skin contact. Do not bring used product in contact with the eyes or skin. Wash hands before breaks and immediately after handling the product. Use only clean equipment. Regular cleaning of equipment, work area and clothing. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material). No rings, watches or similar things should be worn. Product residues can remain and, therefore, can trigger skin reactions.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Electrical systems and equipment must comply with the regulations. Use only explosion-proof equipment.

Storage conditions : Containers keep tightly closed. Do not use unlabelled containers. Keep away from sources of ignition - No smoking. The product may only come into contact with suitable materials. Take necessary action to avoid static electricity discharge.

Information on mixed storage : Do not store together with foodstuff, drinks and animal feed .

Storage area : Smoking in the storage rooms is forbidden.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

8.2. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. 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.

Personal protective equipment:

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

Hand protection:

Not required under normal use. 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). Use tested protective gloves. The breakthrough time must be greater than the useful life of the product. Protective gloves should be replaced immediately if damaged or in case of signs of wear.

Eye protection:

In case of risk of splashing, wear protective glasses. Safety glasses with side shields (EN 166).

Skin and body protection:

Wear protective clothing. Heavy duty work shoes. See information supplied by the manufacturer.

Respiratory protection:

Not required when area is well ventilated. When the concentration in the air is over the maximum occupational exposure limit, an approved respiratory protection apparatus must be worn. If there is a risk of inhalation of aerosols/spray mist/spray droplets, half-masks with combination filters for organic vapours and particles are to be worn. If necessary: self-contained breathing apparatus. Complete protection suit and compressed air breathing apparatus. (in case of higher concentrations)

Environmental exposure controls:

Emission from ventilation and process equipment should be tested to make sure that it fulfils the requirements of environmental protection regulation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Brown.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 316 °C
Flash point	: > 210 °C (ASTM D-92)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.013 kPa (at 20 °C)
Relative vapour density at 20 °C	: > 2 (at 101 kPa)

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Relative density	: 1.006 (ASTM D1298)
Solubility	: Water: negligible
Partition coefficient n-octanol/water (Log Pow)	: > 3.5
Viscosity, kinematic	: 220 mm ² /s (at 40 °C)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0.9 vol %
Upper explosive limit (UEL)	: 7 vol %

9.2. Other information

Other properties : Pour point : - 30 °C (ASTM D97).

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

Does not polymerize.

10.4. Conditions to avoid

Keep away from heat and sources of ignition. Avoid sparks and static charges. To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

1,4-dihydroxyanthraquinone (81-64-1)

LD50 oral rat > 5000 mg/kg bodyweight (OECD 401 method)

LD50 dermal rat > 2500 mg/kg bodyweight (OECD 402 method)

reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (-)

LD50 oral rat > 5000 mg/kg bodyweight

LD50 dermal rat > 2000 mg/kg bodyweight (OECD 402 method)

Octanoic acid, compound with octylamine (1:1) (17463-34-2)

LD50 oral rat > 2000 mg/kg bodyweight (OECD 401 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

Aspiration hazard : Not classified

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Viscosity, kinematic 220 mm²/s (at 40 °C)

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Experience with humans	: Prolonged skin contact may cause skin irritation and/or dermatitis. Avoid skin contact with the used product. Wash hands before breaks and immediately after handling the product
Other information	: Synthetic base oil : Laboratory tests on animals have not shown any hints of effects harmful to health. Experience shows no unusual dermatitis hazard from routine handling.

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

Transmission Oil Profimax classic	
ErC50 algae	> 100 mg/l Pseudokirchneriella subcapitata/argument by analogy
NOEC (chronic)	1 mg/l 21 d - Daphnia magna (Water flea)/argument by analogy

1,4-dihydroxyanthraquinone (81-64-1)	
EC50 - Crustacea [1]	> 0.134 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	0.044 mg/l Desmodesmus subspicatus

reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (-)	
LC50 - Fish [1]	8.1 – 11.5 mg/l Danio rerio (zebra-fish)
LC50 - Fish [2]	1.3 mg/l Oryzias latipes (Ricefish)
EC50 - Crustacea [1]	3.7 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	0.55 mg/l (OECD 201 method)
NOEC chronic crustacea	0.12 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.11 mg/l

Octanoic acid, compound with octylamine (1:1) (17463-34-2)	
EC50 - Crustacea [1]	5.42 mg/l Daphnia magna (Water flea) - (OECD 202 method)
EC50 72h - Algae [1]	1.15 – 0.504 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (-)	
Persistence and degradability	Readily biodegradable.
Biodegradation	84 % 28 d - (OECD 301B method)

Octanoic acid, compound with octylamine (1:1) (17463-34-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	61 % 14 d - (OECD 301F method)

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	> 3.5

1,4-dihydroxyanthraquinone (81-64-1)	
Partition coefficient n-octanol/water (Log Pow)	4.16 (at 25 °C)/Quantitative structure-activity relationship (QSAR)
Partition coefficient n-octanol/water (Log Kow)	4.482

reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (-)	
Bioconcentration factor (BCF REACH)	220
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 22 °C)

Octanoic acid, compound with octylamine (1:1) (17463-34-2)	
Partition coefficient n-octanol/water (Log Pow)	2.55 (at 22 °C)

12.4. Mobility in soil

Transmission Oil Profimax classic	
Ecology - soil	Synthetic base oil : The product floats on (waste) water. If the product is release it is primarily adsorbed by sediments and soil.

reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (-)	
Partition coefficient n-octanol/water (Log Koc)	4.245 Quantitative structure-activity relationship (QSAR)

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12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	The product does not contain any substance which meets the PBT criteria (persistent/bio-accumulative/toxic) or the vPvB criteria (very persistent/very bio-accumulative). REACH regulation, annex XIII.
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12.6. Other adverse effects

Additional information : Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Disposal in accordance with the official regulations. Must be incinerated in a suitable incineration plant authorised under the Environmental Protection Act. Should not be released into the environment. Avoid bringing product in contact with the skin. Packaging material: empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal. Disposal in accordance with the official regulations. The containers must be sealed, marked and disposed of safely. Empty containers must be completely drained to the state of the art before being disposed of. 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. See also section 7.

Additional information : Waste code numbers are a recommendation, since the intended use by the consumer allows a final assignment.

European List of Waste (LoW) code : 13 02 06* - synthetic engine, gear and lubricating oils
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
not regulated	not regulated	not restricted	not regulated	not regulated
14.2. UN proper shipping name				
not regulated	not regulated	not restricted	not regulated	not regulated
14.3. Transport hazard class(es)				
not regulated	not regulated	not restricted	not regulated	not regulated
14.4. Packing group				
	-			
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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(c)	reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : DIRECTIVE 2004/42/CE Annex II: No data available

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

15.1.2. National regulations

The national regulations have to be complied with as necessary.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

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
EPA = Environmental Protection Agency
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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

EUH210	Safety data sheet available on request.
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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.