TRANSMISSION FLUID T-DC

SAFETY DATA SHEET

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law

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VERSION: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	Transmission Fluid T-DC
Product code	:	Ford Internal Ref.: 514564
SDS Number	:	11851
Product use	:	Professional use

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 : Transmission Oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
Ford-Werke GmbH
Edsel-Ford-Str. 2-14
50769 Cologne
Germany
+49 221 90-33333
sdseu@ford.com

Distributor
Ford Motor Company Ltd.
Parts Distribution Centre
Royal Oak Way South
NN11 8NT Daventry, Northants
United Kingdom
+44 1327 305 198

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations

Health hazards	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations

Hazard pictograms

Signal word Warning

Contains 1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione]; C14-16-18 Alkyl phenol; maleic anhydride

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

Prevention

P280 Wear protective gloves.

Response

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

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.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of 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 Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 649-468-00-3 01-2119487077-29-XXXX	25 - < 55	Asp. Tox. 1, H304	(Note L)
Dec-1-ene, trimers, hydrogenated	157707-86-3 500-393-3 01-2119493949-12-XXXX	25 - 50	Asp. Tox. 1, H304	
1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione]	64051-50-9 264-637-8 -	1 - < 3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	91648-65-6 293-927-7 - 01-2119976351-35	1 - < 3	Aquatic Chronic 3, H412	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1 276-738-4 649-483-00-5 01-2119474889-13-XXXX	1 - < 3	Asp. Tox. 1, H304	(Note L)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0 276-737-9 649-482-00-X 01-2119474878-16-XXXX	1 - < 3	Asp. Tox. 1, H304	(Note L)
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	125643-61-0 406-040-9 607-530-00-7 01-2119830067-43-XXXX	1 - < 3	Aquatic Chronic 4, H413	
Reaction product of alkylthioalcohol and substituted phosphorus compound	N/A 424-820-7	0,1 - < 1	Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	

			(M=10)	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	1218787-32-6 620-540-6 01-2119510877-33-XXXX	0,1 - < 0,3	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1.0)	(5 ≤ C < 100) Skin Corr. 1C, H314
C14-16-18 Alkyl phenol	1190625-94-5 931-468-2 01-2119498288-19-XXXX	0,1 - < 0,3	Skin Sens. 1B, H317 STOT RE 2, H373	
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31-XXXX	0,01 - < 0,1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 STOT RE 2, H373	(0.001 ≤ C ≤ 100) Skin Sens. 1A, H317

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 : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash immediately with plenty of water. Get medical advice/attention.

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. Call a physician immediately.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth thoroughly. Get immediate medical advice/attention.

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

Symptoms/effects after skin contact : Redness. May cause an allergic skin reaction. Causes skin irritation. May cause skin dryness or cracking.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, dry sand, or alcohol-resistant foam.

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Cool containers / tanks with spray water if possible.

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO2). Silicon dioxide. Nitrogen oxides. Phosphorus oxides. Hydrogen sulfide.

5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	:	Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the MSDS.
Emergency procedures	:	Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up.

6.1.2. For emergency responders

Protective equipment	:	Wear recommended personal protective equipment. For personal protection, see section 8 of the SDS.
Emergency procedures	:	Keep unnecessary personnel away. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

For containment	:	Stop leak without risks if possible. Move containers from fire area if it can be done without personal risk.
Methods for cleaning up	:	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: Take up liquid spill into absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 :" Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Avoid contact with skin, eyes and clothing.
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Ensure adequate ventilation, especially in confined areas.
Storage conditions	:	Store locked up. Store in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Transmission Oil.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

maleic anhydride (108-31-6)

United Kingdom - Occupational Exposure Limits

Local name	Maleic anhydride
WEL TWA (OEL TWA)	1 mg/m³
WEL STEL (OEL STEL)	3 mg/m³
Remark	Sen (Capable of causing occupational asthma. See paragraphs 53–56)
Regulatory reference	EH40. HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione] (64051-50-9)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	6.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	0.048 mg/l
PNEC aqua (marine water)	0.005 mg/l
PNEC aqua (intermittent, freshwater)	0.476 mg/l
PNEC aqua (intermittent, marine water)	0.048 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	883000 mg/kg dwt
PNEC sediment (marine water)	88300 mg/kg dwt

PNEC (Soil)

PNEC soil	177000 mg/kg dwt

PNEC (Oral)

PNEC oral (secondary poisoning)	66.7 mg/kg food

PNEC (STP)

PNEC sewage treatment plant	32 mg/l

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol (91648-65-6)

DNEL/DMEL (Workers)

Long-term - local effects, dermal	6.25 mg/kg bw/day
Long-term - systemic effects, inhalation	4.408 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects,oral	0.625 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.087 mg/m³
Long-term - systemic effects, dermal	3.125 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.041 mg/l
PNEC aqua (marine water)	0.004 mg/l
PNEC aqua (intermittent, freshwater)	0.004 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	380.62 mg/kg dwt
PNEC sediment (marine water)	38.06 mg/kg dwt

PNEC (Soil)

PNEC soil	308.96 mg/kg dwt

PNEC (Oral)

PNEC oral (secondary poisoning)	6.67 mg/kg food

PNEC (STP)

PNEC sewage treatment plant	8000 mg/l

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

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.73 mg/m³
Long-term - local effects, inhalation	5.58 mg/m³

DNEL/DMEL (General population)

Acute - systemic effects, oral	0.74 mg/kg bodyweight

PNEC (Oral)

PNEC oral (secondary poisoning)	9.33 mg/kg food

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.73 µg/m³
Long-term - local effects, inhalation	5.58 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day

PNEC (Oral)

PNEC oral (secondary poisoning)	9.33 mg/kg food

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

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.7 mg/m³
Long-term - local effects, inhalation	5.6 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day

PNEC (Oral)

PNEC oral (secondary poisoning)	9.33 mg/kg food

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	8.6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.43 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.74 mg/m³
Long-term - systemic effects, dermal	4.3 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.004 mg/l
PNEC aqua (marine water)	0 mg/l
PNEC aqua (intermittent, freshwater)	0.043 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.37 mg/kg dwt
PNEC sediment (marine water)	0.037 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.632 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.033 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.112 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.214 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.745 mg/m³
Long-term - systemic effects, dermal	0.214 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.214 µg/L
PNEC aqua (marine water)	0.021 µg/L
PNEC aqua (intermittent, freshwater)	0.87 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	1.692 mg/kg dwt
PNEC sediment (marine water)	0.169 mg/kg dwt
PNEC (Soil)	
PNEC soil	5 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	2 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1500 µg/L

C14-16-18 Alkyl phenol (1190625-94-5)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.3 mg/kg bw/day
Long-term - systemic effects, inhalation	1.17 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	4266.16 mg/kg dwt
PNEC sediment (marine water)	426.62 mg/kg dwt
PNEC (Soil)	
PNEC soil	852.58 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	3.3 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

maleic anhydride (108-31-6)

DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0.2 mg/m³
Acute - local effects, inhalation	0.2 mg/m³
Long-term - systemic effects, inhalation	0.081 mg/m³
Long-term - local effects, inhalation	0.081 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.038 mg/l
PNEC aqua (marine water)	0.004 mg/l
PNEC aqua (intermittent, freshwater)	0.379 mg/l
PNEC aqua (intermittent, marine water)	0.038 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.296 mg/kg dwt
PNEC sediment (marine water)	0.03 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.037 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	44.6 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2.2. Personal protection equipment

Personal protective equipment:
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses with side shields. EN 166.

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing. Long sleeved protective clothing. EN 14605. EN ISO 13982

Hand protection:
Protective gloves. ISO 374-1. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove

Material	Permeation	Thickness (mm)	Comments
Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.

Other skin protection

Materials for protective clothing:
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment

8.2.2.3. Respiratory protection

Respiratory protection:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn

8.2.2.4. Thermal hazards

Thermal hazard protection:
Wear appropriate thermal protective clothing, when necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

Other information:
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Yellow.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	> 316 °C
Flammability	:	Not available
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	200 °C
Auto-ignition temperature	:	> 200 °C
Decomposition temperature	:	Not available
pH	:	Not applicable
Viscosity, kinematic	:	23.3 mm²/s @ 40°C

Solubility	:	Insoluble in water.
Log Kow	:	Not available
Vapour pressure	:	< 0.013 kPa
Vapour pressure at 50°C	:	Not available
Density	:	0.835 g/cm³
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Relative density of saturated gas/air mixture	:	0.835
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

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	:	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

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

Acute toxicity (oral)	:	Based on available data, the classification criteria are not met
Acute toxicity (dermal)	:	Based on available data, the classification criteria are not met
Acute toxicity (inhalation)	:	Based on available data, the classification criteria are not met

maleic anhydride (108-31-6)	
LD50 oral	1090 mg/kg

Skin corrosion/irritation	:	Based on available data, the classification criteria are not met pH: Not applicable
Serious eye damage/irritation	:	Based on available data, the classification criteria are not met pH: Not applicable
Respiratory or skin sensitisation	:	May cause an allergic skin reaction
Germ cell mutagenicity	:	Based on available data, the classification criteria are not met
Carcinogenicity	:	Based on available data, the classification criteria are not met (All hydrocarbons in this mixture: Note L is applicable (DMSO <3%), therefore no classification as carcinogen)

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

C14-16-18 Alkyl phenol (1190625-94-5)	
STOT-repeated exposure	May cause damage to organs (liver) through prolonged or repeated exposure.

maleic anhydride (108-31-6)	
STOT-repeated exposure	Causes damage to organs (respiratory system) through prolonged or repeated exposure (inhalation). May cause damage to organs (kidneys) through prolonged or repeated exposure.

Aspiration hazard	:	Based on available data, the classification criteria are not met

Transmission Fluid T-DC	
Viscosity, kinematic	23.3 mm²/s @ 40°C

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms	:	Exposure may produce an allergic reaction,Information on Effects: refer to section 4

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	On the basis of test data. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Hazardous to the aquatic environment, short–term (acute)	:	Based on available data, the classification criteria are not met
Hazardous to the aquatic environment, long–term (chronic)	:	Based on available data, the classification criteria are not met

Transmission Fluid T-DC

EC50 - Crustacea [1]	> 100 mg/l (OECD 202 method)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201 method)
NOEC chronic crustacea	> 10 mg/l (OECD 211 method)
NOEC chronic algae	32 g/l (OECD 201 method)

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

LC50 - Fish [1]	> 74 mg/l 96h, Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	4.3 mg/l 24h, daphnia
EC50 72h - Algae [1]	> 3 mg/l
NOEC chronic fish	0.001 mg/l 36d, Brachydanio rerio (zebra-fish)
NOEC chronic crustacea	≤ 0.01 mg/l 21d, Daphnia magna (Water flea)

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

LC50 - Fish [1]	0.1 mg/l
EC50 - Crustacea [1]	0.043 ml/l

12.2. Persistence and degradability

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

Chemical oxygen demand (COD)	2.42 g O_2/g substance

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

Persistence and degradability	Readily biodegradable. (OECD 301D method).
Biodegradation	63 % (28 d, OECD 301D)

12.3. Bioaccumulative potential

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

BCF - Fish [1]	260 @ 35d
Log Pow	9.2

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Transmission Fluid T-DC

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. Other adverse effects

Other adverse effects : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations.

Waste treatment methods : Collect and reclaim or dispose in closed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not allow to enter drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW, EC 2000/532) : The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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
Not regulated for transport

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(b)	Transmission Fluid T-DC ; Dec-1-ene, trimers, hydrogenated ; 1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione] ; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Distillates (petroleum), hydrotreated light paraffinic ; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ; Reaction product of alkylthioalcohol and substituted phosphorus compound ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; C14-16-18 Alkyl phenol
3(c)	1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione] ; 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol ; reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate ; Reaction product of alkylthioalcohol and substituted phosphorus compound ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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

VOC content : Not applicable

Other information, restriction and prohibition regulations : Directive 94/33/EC on the protection of young people at work, as amended. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. For details, refer to section 3 and 8.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
STEL	Short-term Exposure Limit
VOC	Volatile organic compounds
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
OEL	Occupational Exposure Limit
RRN	REACH Registration no.
TWA	Time Weighted Average. The average concentration of a chemical in air over the total exposure time-usually an 8-hour workday.

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Skin Sens. 1	H317	Calculation method

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Attachment to the Safety Data Sheet

Product Name: Transmission Fluid T-DC

Ford Int. Ref. No.: 514564 **Revision Date:** 10.04.2024

Involved Products:

	Finiscode	Part number	Container Size:
. 1	2 790 172	RU7J M2C218 AA	1 l