TRANSMISSION FLUID BO-DC



SAFETY DATA SHEET

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

ISSUE DATE: 27.06.2022 REVISION DATE: 05.06.2023 SUPERSEDES: 27.06.2022

VERSION: 1.1

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

1.1. Product identifier

Product form : Mixture

Trade name : Transmission Fluid BO-DC Product code : Ford Internal Ref.: 505685

SDS Number : 10089

Product use : Professional use

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

1.2.1. Relevant identified uses

Function or use category : Transmission Oil

1.2.2. Uses advised against

Restrictions on use : None known

1.3. Details of the supplier of the safety data sheet

Supplier Distributor

Ford-Werke GmbH Ford Motor Company Ltd.
Edsel-Ford-Str. 2-14 Parts Distribution Centre
50769 Cologne Royal Oak Way South
Germany NN11 8NT Daventry, Northants

+49 221 90-33333 United Kingdom sdseu@ford.com +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

Environmental hazards Hazardous to the aquatic environment – H412 Harmful to aquatic life with long lasting effects.

Chronic Hazard, Category 3

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

Signal word -

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

EUH-statements EUH208 - Contains 2-Tetradecyloxirane, reaction products with boric acid. May produce an allergic

reaction.

2.3. Other hazards

Other hazards which do not result in classification : Defatting of the skin.

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 is 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	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
	EC- No Index No			
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	25 - < 50	Asp. Tox. 1, H304	
	500-183-1			
	-			
	01-2119486452-34-XXXX			
Dec-1-ene, trimers, hydrogenated	157707-86-3	25 - < 50	Asp. Tox. 1, H304	
	500-393-3			
	01-2119493949-12-XXXX			
Isooctadecanoic acid, reaction products with	-	0,1 - < 3	Skin Irrit. 2, H315	
tetraethylenepentamine	701-204-9		Eye Irrit. 2, H319	
	01-2119960832-33-XXXX			
1-(tert-dodecylthio)propan-2-ol	67124-09-8	0,1 - < 1	Skin Sens. 1B, H317	(14.2 ≤C < 100) Skin Sens. 1B, H317
	266-582-5		Aquatic Acute 1, H400	
	01-2119953277-30-XXXX		(M=1.0)	
			Aquatic Chronic 1, H410	
			(M=1.0)	
2-Tetradecyloxirane, reaction products with	-	0,1 - < 1	Skin Sens. 1B, H317	
boric acid	701-392-2			
	01-2119976364-28-XXXX			

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

SECTION 4: First aid measures

First-aid measures after skin contact

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.

: 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 : Defatting of the skin. May cause skin dryness or cracking. Symptoms/effects after ingestion : On ingestion in large quantities: Diarrhea, Nausea.

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 : Foam. Dry chemical.

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 : Intense heat may cause container to burst.

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

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 : Flammable vapours may accumulate in the container. 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

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

Long-term - systemic effects, dermal Long-term - systemic effects, inhalation

8.1.4. DNEL and PNEC

Isooctadecanoic acid, reaction products with tetraethylenepentamine (-)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	3.33 mg/kg bw/day			
Long-term - systemic effects, inhalation	11.75 mg/m³			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	1.67 mg/kg bw/day			
Long-term - systemic effects, inhalation	2.9 mg/m³			
Long-term - systemic effects, dermal	1.67 mg/kg bw/day			
PNEC (Water)				
PNEC aqua (freshwater)	0.46 mg/l			
PNEC aqua (marine water)	0.046 mg/l			
PNEC aqua (intermittent, freshwater)	0.94 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	38100 mg/kg dwt			
PNEC sediment (marine water)	3810 mg/kg dwt			
PNEC (Soil)				
PNEC soil	10 mg/kg dwt			
PNEC (Oral)				
PNEC oral (secondary poisoning)	33.3 mg/kg food			
PNEC (STP)				
PNEC sewage treatment plant	1000 mg/l			
1-(tert-dodecylthio)propan-2-ol (67124-09-8)				
DNEL/DMEL (Workers)				
Acute - local effects, dermal	215.4 μg/cm²			

3.34 mg/kg bodyweight/day

11.8 mg/m³

DNEL/DMEL (General population)

Acute - local effects, dermal 107.7 µg/cm²

Long-term - systemic effects, oral 0.84 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 2.9 mg/m³

Long-term - systemic effects, dermal 1.67 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0.006 mg/l
PNEC aqua (marine water) 0.001 mg/l
PNEC aqua (intermittent, freshwater) 0.006 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 8.28 mg/kg dwt
PNEC sediment (marine water) 0.828 mg/kg dwt

PNEC (Soil)

PNEC soil 0.244 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 100 mg/l

2-Tetradecyloxirane, reaction products with boric acid (-)

PNEC (Water)

PNEC aqua (freshwater)

1 mg/l

PNEC aqua (marine water)

0.1 mg/l

PNEC aqua (intermittent, freshwater)

1 mg/l

PNEC aqua (intermittent, marine water)

0.1 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 42700 mg/kg dwt
PNEC sediment (marine water) 4270 mg/kg dwt

PNEC (Soil)

PNEC soil 8540 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 100 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:

Relative density

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	:	Green.
Appearance	:	Liquid.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available

: > 200 °C Open cup [Cleveland] Flash point

Auto-ignition temperature : Not available Decomposition temperature : Not available : Not applicable рΗ Viscosity, kinematic : 32 mm²/s @ 40°C Solubility : insoluble in water. Log Kow : Not available : Not available Vapour pressure : Not available Vapour pressure at 50°C Density : 0.838 g/cm3 @ 15°C : Not available

Product code: Ford Internal Ref.: 505685 GB - en Revision date: 6/5/2023 6/10 Relative vapour density at 20°C : Not available : Not applicable Particle size Not applicable Particle size distribution Particle shape Not applicable Not applicable Particle aspect ratio Not applicable Particle aggregation state Not applicable Particle agglomeration state Not applicable Particle specific surface area 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 : 0 %

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

Eliminate every possible source of ignition.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

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
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 : Based on available data, the classification criteria are not met Germ cell mutagenicity : Based on available data, the classification criteria are not met Carcinogenicity : Based on available data, the classification criteria are not met Reproductive toxicity : Based on available data, the classification criteria are not met STOT-single exposure : Based on available data, the classification criteria are not met STOT-repeated exposure : Based on available data, the classification criteria are not met Aspiration hazard : Based on available data, the classification criteria are not met

Viscosity, kinematic 32 mm²/s @ 40°C

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

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

: Harmful to aquatic life with long lasting effects.

1-(tert-dodecylthio)propan-2-ol (67124-09-8)

EC50 - Crustacea [1] 0.58 mg/l Daphnia magna

12.2. Persistence and degradability

Transmission Fluid BO-DC

Persistence and degradability

Not expected to be rapidly biodegradable.

12.3. Bioaccumulative potential

Transmission Fluid BO-DC

Bioaccumulative potential There is no bioaccumulation.

Dec-1-ene, homopolymer, hydrogenated (68037-01-4)

Log Pow > 3
Log Kow > 6.5

12.4. Mobility in soil

Transmission Fluid BO-DC

Ecology - soil Spillages may penetrate the soil causing ground water contamination.

12.5. Results of PBT and vPvB assessment

Transmission Fluid BO-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 legislation (waste)

: 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) code

: 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

 Product code: Ford Internal Ref.: 505685
 GB - en
 Revision date: 6/5/2023
 8/10

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) Dec-1-ene, homopolymer, hydrogenated; Dec-1-ene, trimers, hydrogenated; Isooctadecanoic acid, reaction products with

 $tetraethylenepentamine\ ;\ 1\hbox{-}(tert\hbox{-}dodecylthio)propan-2\hbox{-}ol$

3(c) Transmission Fluid BO-DC; 1-(tert-dodecylthio)propan-2-ol

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 : 0 %

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

Indication of changes:

Section 1. Product name.

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.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements

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

Asp. Tox. 1 Aspiration hazard, Category 1

EUH208 Contains 2-Tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction.

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. 2 Skin corrosion/irritation, Category 2
Skin Sens. 1B Skin sensitisation, category 1B

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

Aduatic Chronic 3 H412 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 BO-DC

Ford Int. Ref. No.: 505685 Revision Date: 05.06.2023

Involved Products:

 Finiscode
 Part number
 Container Size:

 1
 2 635 220
 NU7J M2C936 AA
 1 I

 2
 2 635 557
 NU7J M2C936 BA
 5 I

3 2 635 936 NU7J M2C936 CA 60 I