



# Double Clutch Transmission Fluid

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 1-3-2019 Revision date: 18-6-2020 Supersedes: 23-5-2016 version: 1.1

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

#### 1.1. Product identifier

Product name : Double Clutch Transmission Fluid

Product code : 16000DCTF

#### 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, Industrial use

Use of the substance/mixture : Automotive care products

Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company  
Cyclotronweg 1  
2629 HN Delft Delft - Nederland  
T +31 (0)15 2514030 - F +31 (0)15 2514031  
[msds@mpmoil.nl](mailto:msds@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### 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]

EUH-statements : EUH208 - Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w / w) DMSO extract, according to IP346

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified.	(CAS-No.) 64742-55-8 (EC-No.) 265-158-7 (EC Index-No.) 649-468-00-3 (REACH-no) 01-2119487077-29	40 – 60	Asp. Tox. 1, H304

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distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25	20 – 40	Asp. Tox. 1, H304
Distillates (Petroleum) , Hydrotreated Ligt	(CAS-No.) 64742-47-8 (EC-No.) 265-149-8 (EC Index-No.) 649-422-00-2	1 – 2,49	Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Isooctadecanoic acid, reaction products with tetraethylenepentamine	(CAS-No.) 68784-17-8 (EC-No.) 272-225-4 (REACH-no) 01-2119960832-33	1 – 2,49	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Distillates (petroleum), hydrotreated light naphthenic	(CAS-No.) 64742-53-6 (EC-No.) 265-156-6 (EC Index-No.) 649-466-00-2	1 – 2,49	Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Reaction product of alkylthioalcohol and substituted phosphorous compound	(EC-No.) 424-820-7 (REACH-no) 01-0000017126-75	0,1 – 0,5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	(CAS-No.) 93882-40-7 (EC-No.) 299-434-3 (REACH-no) 01-2120735527-50	0,1 – 0,5	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine		0,1 – 0,25	Skin Corr. 1C, H314 Aquatic Chronic 4, H413

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Reaction product of alkylthioalcohol and substituted phosphorous compound	(EC-No.) 424-820-7 (REACH-no) 01-0000017126-75	( 0,1 ≤C < 0,24) Aquatic Chronic 1, H410

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

After inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
After skin contact	: Gently wash with plenty of soap and water.
After eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
After ingestion	: Do NOT induce vomiting. Get immediate medical advice/attention. Rinse mouth out with water.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
After inhalation	: Not expected to present a significant hazard under anticipated conditions of normal use.
After skin contact	: Not expected to present a significant hazard under anticipated conditions of normal use.
After eye contact	: No specific symptoms mentioned.
After ingestion	: To our knowledge, the product does not present any particular risk, under normal conditions of use.

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

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: water spray, powder, foam and CO2.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Use a water spray to cool exposed surfaces and to protect fire-fighters.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

Other information : If spilled, may cause the floor to be slippery.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Handling temperature : < 40 °C

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : < 40 °C

Storage area : Keep in a cool, well-ventilated place.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

EU	IOELV TWA (mg/m³)	5 mg/m³
EU	IOELV STEL (mg/m³)	10 mg/m³
Germany	TRGS 910 Acceptable concentration notes	

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

#### 8.2. Exposure controls

##### Personal protective equipment:

Safety glasses. Gloves.

##### Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

##### Hand protection:

Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0,35mm		

##### Eye protection:

Safety goggles

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

No respiratory protection needed under normal use conditions

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Personal protective equipment symbol(s):



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Oily.
Colour	: Green.
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	: Not determined
Flash point	: > 180 °C @ ASTM D92
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 849 g/l @ 15°C
Solubility	: Water: practically insoluble
Log Pow	: No data available
Viscosity, kinematic	: 36,3 mm²/s @ 100°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None under normal conditions.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under normal conditions.

#### 10.5. Incompatible materials

Strong oxidizing agent. acids and bases.

#### 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
Acute toxicity (inhalation)	: Not classified

#### Reaction product of alkylthioalcohol and substituted phosphorous compound

LD50 oral rat	> 2000 mg/kg 67/548/EEG Annex V, B1
LD50 dermal rat	> 500 mg/kg 67/548/EEG Annex V, B3

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LD50 dermal rabbit	> 500 mg/kg bodyweight
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### **N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine**

LD50 oral rat	2000 – 5000 mg/kg
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### **Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified. (64742-55-8)**

LD50 oral rat	> 5000 kilogram
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5,53 mg/l/4h

### **Isooctadecanoic acid, reaction products with tetraethylenepentamine (68784-17-8)**

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

### **4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)**

LD50 oral	> 10000 mg/kg
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### **distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)**

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	2000 ml/kg
LC50 Inhalation - Rat	> 5 mg/l/4h

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

### **Isooctadecanoic acid, reaction products with tetraethylenepentamine (68784-17-8)**

LOAEL (oral, rat)	> 1000 mg/kg bodyweight OECD 421
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### **distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)**

NOAEL (dermal, rat/rabbit)	> 2000 mg/kg bodyweight
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STOT-repeated exposure	: Not classified
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### **Reaction product of alkylthioalcohol and substituted phosphorous compound**

NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight
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### **Isooctadecanoic acid, reaction products with tetraethylenepentamine (68784-17-8)**

NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight OECD 407
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### **distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)**

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight OECD 408
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	> 220 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	> 980 mg/kg bodyweight

Aspiration hazard	: Not classified
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Viscosity, kinematic	36,3 mm²/s @ 100°C
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## SECTION 12: Ecological information

### 12.1. Toxicity

General	: Based on available data, the classification criteria are not met.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### Reaction product of alkylthioalcohol and substituted phosphorous compound

LC50 fish 1	1,5 mg/l
EC50 Daphnia 1	0,09 mg/l
EC50 Daphnia 2	0,22 21d
EC50 72h algae (1)	0,31 mg/l
LOEC (chronic)	0,35 mg/l Daphnia magna @21 d
NOEC (chronic)	0,14 mg/l
NOEC chronic algae	0,13 mg/l

### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine

LC50 fish 1	690 mg/l @96 OECD 203 Cyprinodon variegatus
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### Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified. (64742-55-8)

LC50 fish 1	> 100 mg/l 96h
LC50 other aquatic organisms 1	> 100 mg/l
ErC50 (algae)	> 100 mg/l 48h
NOEC chronic fish	100 mg/l

### Isooctadecanoic acid, reaction products with tetraethylenepentamine (68784-17-8)

LC50 fish 1	> 1000 mg/l OECD 203
EC50 Daphnia 1	> 1000 mg/l OECD 202
EC50 96h algae (1)	44 mg/l Pseudokirchneriella subcapitata
EC50 96h algae (2)	94 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	100 mg/l Daphnia magna @21d
NOEC (chronic)	32 mg/l Daphnia magna @21d

### 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)

LC50 fish 1	> 1000 ml/l 96h Cyprinodon variegatus OECD 203
LC50 fish 2	> 100 mg/l 96h Oryzias latipes OECD 203
EC50 Daphnia 1	9,5 mg/l OECD 202
EC50 72h algae (1)	> 100 mg/l Pseudokirchneriella subcapitata- OECD 201

### distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LC50 fish 1	> 100 mg/l
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### 12.2. Persistence and degradability

#### Double Clutch Transmission Fluid

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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### Reaction product of alkylthioalcohol and substituted phosphorous compound

Persistence and degradability	Not readily biodegradable.
Biodegradation	52,9 % @60d OECD 301B - 10mg/l

### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine

Persistence and degradability	Not readily biodegradable.
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### Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified. (64742-55-8)

Persistence and degradability	Not established.
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### Isooctadecanoic acid, reaction products with tetraethylenepentamine (68784-17-8)

Persistence and degradability	Readily biodegradable.
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### 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)

Persistence and degradability	Not readily biodegradable.
Biodegradation	11 – 14 % OECD 301

### 12.3. Bioaccumulative potential

#### Reaction product of alkylthioalcohol and substituted phosphorous compound

Bioaccumulative potential	Bioaccumulative potential.
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### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine

Log Pow	> 6
Bioaccumulative potential	Bioaccumulative potential.

### Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified. (64742-55-8)

Log Pow	> 3
Bioaccumulative potential	No data available.

### 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)

Bioaccumulative potential	Bioaccumulative potential.
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### 12.4. Mobility in soil

#### Reaction product of alkylthioalcohol and substituted phosphorous compound

Log Koc	0,343 – 5,315
Soil	Adsorbs into the soil.

### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine

Soil	Adsorbs into the soil.
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### 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)

Soil	Adsorbs into the soil.
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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Do not empty into drains or the aquatic environment. Do not allow material to contaminate ground water system

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

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European List of Waste (LoW) code

: 13 02 06\* - synthetic engine, gear and lubricating oils  
13 02 00 - waste engine, gear and lubricating oils

### SECTION 14: Transport information

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

ADR	IMDG
<b>14.1. UN number</b>	
Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>	
Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>	
Not applicable	Not applicable
<b>14.4. Packing group</b>	
Not applicable	Not applicable
<b>14.5. Environmental hazards</b>	
Not applicable	Not applicable
No supplementary information available	
<b>14.6. Special precautions for user</b>	
<b>Overland transport</b>	
Not applicable	
<b>Transport by sea</b>	
Not applicable	
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
Not applicable	

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B



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Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

### SDS MPM REACH

*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.*