



# Double Clutch Transmission Fluid

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 1-3-2019 Revision date: 23-5-2016 Supersedes: 30-10-2012 version: 1.0

### 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 - 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

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

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	Carc. 1B, H350 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
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
Isooctadecanoic acid, reaction products with tetraethylenepentamine	(EC-No.) 272-225-4 (REACH-no) 01-2119960832-33	1 - 2,49	Skin Irrit. 2, H315 Eye Irrit. 2, H319
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 Aquatic Chronic 1, H410
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 (M=10)
N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine		0,1 - 0,25	Skin Corr. 1C, H314 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

After inhalation	: No special measures are necessary.
After skin contact	: Wash with plenty of soap and water.
After eye contact	: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
After ingestion	: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.

### 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	: High power water jet.

### 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 water spray/stream to protect personnel and to cool endangered containers.

## 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

Do not release in groundwater, surfacewater or sewerage. Notify authorities if liquid enters sewers or public waters.

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

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

- For containment : Prevent spreading over great surfaces (e.g. by damming or installing oil booms).  
Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Other information : Can be slippery on hard, smooth walking area.

### 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 : When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

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

- Storage temperature : < 40 °C  
Storage area : Keep container tightly closed 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/m <sup>3</sup> )	5
EU	IOELV STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Germany	TRGS 910 Acceptable concentration notes	

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m<sup>3</sup> oilspray (TWA, 8 hour workday) is recommended.

### 8.2. Exposure controls

#### Personal protective equipment:

Gloves. Safety glasses.

#### Materials for protective clothing:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

#### Hand protection:

Wear suitable gloves.

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

#### Eye protection:

Tightly sealed safety glasses.

#### Skin and body protection:

Wear suitable protective clothing.

#### Respiratory protection:

Not necessary with sufficient ventilation

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

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 mm <sup>2</sup> /s @ 40°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 use.

### 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 use.

### 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

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

LD50 oral rat	< 2000 - 5000 mg/kg
---------------	---------------------

### 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 - mg/l/4h)	5,53 mg/l/4h

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

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

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

### Isooctadecanoic acid, reaction products with tetraethylenepentamine

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
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

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

NOAEL (dermal, rat/rabbit)	> mg/kg bodyweight
----------------------------	--------------------

### Isooctadecanoic acid, reaction products with tetraethylenepentamine

LOAEL (oral, rat)	> 1000 mg/kg bodyweight OECD 421
-------------------	----------------------------------

STOT-repeated exposure : Not classified

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

NOAEL (dermal, rat/rabbit, 90 days)	> mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	> mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	> mg/kg bodyweight

Aspiration hazard : Not classified

### Double Clutch Transmission Fluid

Viscosity, kinematic	36,3 mm <sup>2</sup> /s @ 40°C
----------------------	--------------------------------

## 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 alkythioalcohol 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
NOEC (chronic)	0,14 mg/l
NOEC chronic algae	0,13 mg/l

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

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

LC50 fish 1	690 mg/l @96 OECD 203 Cyprinodon variegatus
-------------	---------------------------------------------

### 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
-------------------	----------

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

EC50 Daphnia 1	10000 mg/l
----------------	------------

NOEC (acute)	> 100 mg/l @Algae
--------------	-------------------

### Isooctadecanoic acid, reaction products with tetraethylenepentamine

LC50 fish 1	> 1000 mg/l OECD 203
-------------	----------------------

EC50 Daphnia 1	> 1000 mg/l OECD 202
----------------	----------------------

### 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
-------------	-----------------------------------------

LC50 other aquatic organisms 2	> mg/l
--------------------------------	--------

EC50 Daphnia 1	9,5 mg/l OECD 202
----------------	-------------------

EC50 72h algae (1)	> 100 mg/l Pseudokirchneriella subcapitata- OECD 201
--------------------	------------------------------------------------------

## 12.2. Persistence and degradability

### Double Clutch Transmission Fluid

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
-------------------------------	--------------------------------------------------------

### 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.
-------------------------------	----------------------------

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

Persistence and degradability	Not established.
-------------------------------	------------------

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

Biodegradation	≈ 30 % 28d @OECD 301F
----------------	-----------------------

### Isooctadecanoic acid, reaction products with tetraethylenepentamine

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

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

Persistence and degradability	Not readily biodegradable.
-------------------------------	----------------------------

Biodegradation	≈ 11 - 14 % OECD 301
----------------	----------------------

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

### 12.3. Bioaccumulative potential

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

Bioaccumulative potential	Bioaccumulative potential.
---------------------------	----------------------------

#### 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.
---------------------------	--------------------

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

Log Pow	> 4
---------	-----

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

Bioaccumulative potential	Bioaccumulative potential.
---------------------------	----------------------------

### 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.
------	------------------------

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

Soil	Adsorbs into the soil.
------	------------------------

### 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) : Waste disposal according to official state regulations.

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

# Double Clutch Transmission Fluid

## Safety Data Sheet

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

### 14.5. Environmental hazards

Not applicable

Not applicable

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

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

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
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, 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.
H350	May cause cancer.



# Double Clutch Transmission Fluid

## Safety Data Sheet

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

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.*