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

1.1. Product identifier

Product form : Mixture
Trade name/designation : TGMO 5W30 PFE
Product group : Trade product

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
Use of the substance/mixture : Engine oil

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Toyota Motor Europe
Bourgetlaan 60
1140 Brussel - Belgium
T +32 (0)2 745 21 11 - F +32 (0)2 745 20 67
info.msds@toyota-europe.com

National representative : Reference to other sections: 16

1.4. Emergency telephone number

Emergency number : + 32 3 575 55 55 (24h/24h)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified


2.2. Label elements

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

Extra phrases : EUH210 - Safety data sheet available on request

2.3. Other hazards

Other hazards : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments

: Mineral oil REACH nrs 01-2119488706-23, 01-2119487067-30, 01-2119487081-40, 01-2119483621-38, 01-2119480374-36, 01-2119488707-21, 01-2119467170-45, 01-2119480375-34, 01-2119484627-25, 01-2119480132-48, 01-2119487077-29, 01-2119489287-22, 01-2119480472-38, 01-2119471299-27, 01-2119485040-48, 01-2119555262-43, 01-2119495601-36, 01-2119474889-13, 01-2119474878-16

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Highly refined mineral oil (C15 - C50)	(CAS No) - (EC no) - (EC Index) -	70 - 99	Not classified
Highly refined mineral oil (C15 - C50)	(CAS No) - (EC no) - (EC Index) -	10 - 15	Asp. Tox. 1, H304
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	(CAS No) 93819-94-4 (EC no) 298-577-9 (REACH-no) 01-2119543726-33-xxxx	0,1 - <1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures


Additional advice	: First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, consult always a physician.
Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. Artificial respiration and/or oxygen may be necessary. Dizziness -. Nausea -. Unconsciousness, ... : Call a physician immediately.
Skin contact	: Wash with plenty of water/. Remove contaminated clothing. If irritation develops, get medical attention. Wash contaminated clothing before reuse. In the event of a high pressure injection injury, worker should obtain immediate medical assistance.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician.
In case of ingestion	: Rinse mouth. Rinse mouth immediately and drink plenty of water. In case of doubt or persistent symptoms, consult always a physician.

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

Inhalation	: No adverse effects are expected. Repeated or prolonged exposure: Inhalation of mist causes irritation of respiratory system. Effects of breathing high concentrations of vapour may include: Cough. Difficulty in breathing.
Skin contact	: No adverse effects are expected. Excessive exposures may affect human health, as follows: Skin irritation.
Eyes contact	: No adverse effects are expected. Excessive exposures may affect human health, as follows: Irritation to eyes.
Ingestion	: No adverse effects are expected. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Not applicable.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
 Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Evacuate personnel to a safe area. Hazardous decomposition products. Sulphur oxides,. Carbon oxides,. aldehydes,. Smoke,. smokes . Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

5.3. Advice for firefighters

Firefighting instructions : Evacuate personnel to a safe area. Special protective equipment for firefighters. . In case of fire: Wear self-contained breathing apparatus. Cool containers / tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate personnel to a safe area. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Reference to other sections: 5.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Shafts and sewers must be protected from entry of the product.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. water : Remove from the water surface (e.g. skimming, sucking). Large spills should be collected mechanically (remove by pumping) for disposal. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Dispose of contaminated materials in accordance with current regulations. All processes must be supervised by specialists or authorised personnel. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.


6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Do not taste or swallow. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours are heavier than air and may spread along floors. Take precautionary measures against static discharges. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Take any precaution to avoid mixing with incompatible materials. See also section 10 . After use replace the closing cap immediately. Do not allow to enter into surface water or drains.

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Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing. Keep work clothes separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Do not store near or with any of the incompatible materials listed in section 10. Keep container tightly closed in a cool, well-ventilated place. Keep in properly labelled containers.

7.3. Specific end use(s)

Reference to other sections: 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TGMO 5W30 PFE	
EU	Mineral oil OEL's : oil (mist) TLV-TWA (mg/m ³) : 1 (se, no); 5 (be, nl, gb, fr, de, fi, dk) oil (mist) TLV-STEL (mg/m ³) : 3 (se); 10 (be, gb):

Additional information : Concentration measurement in air. Personal air monitoring

8.2. Exposure controls

Engineering control measures : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure : See also section 7 . Use only at a place, which is equipped with a safety shower. Eye wash bottle with pure water . Take precautionary measures against static discharge.

Personal protection equipment : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection : Wear chemically resistant gloves (tested to EN374) . NBR (Nitrile rubber) -. Viton® . Unsuitable material: : PVA. Thickness of the glove material: >0,3mm. Breakthrough time (maximum wearing time) >8h,. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. The exact break through time can be obtained from the protective glove producer and this has to be observed

Eye protection : During splash contact: Wear eye glasses with side protection according to EN 166.

Body protection : Flame-retardant protective clothing,. Impervious clothing

Respiratory protection : Usually no personal respirative protection necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Full face mask (EN 136) . Half-face mask (DIN EN 140) . Filter type: AP (EN141). Use compressed air or fresh air breathing apparatus in closed compartments. EN138/269/EN139/137


Thermal hazard protection : Heat resistant gloves.

Environmental exposure controls : Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid
 Colour : Colourless. Yellow.
 Odour : petroleum-like odour.
 Odour threshold : No data available

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pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/freezing point	: No data available
Freezing point	: Not applicable
Initial boiling point and boiling range	: > 315 °C
Flash point	: ≥ 220 °C (ASTM D92)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0,01 mmHg (@ 37,8°C)
Vapour density	: > 1
Relative density	: No data available
Density	: 0,851 kg/l @ 15°C
Solubility	: Soluble in hydrocarbons. Water: Insoluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: @ 40°C ≥ 60 mm ² /s
Dynamic viscosity	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: Not applicable

9.2. Other information

Additional information : Base oil, DMSO < 3% (IP346)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7 : Handling and storage.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents . (Chlorates. Nitrates. Peroxides). See also section 7 : Handling and storage.

10.6. Hazardous decomposition products


Product does not decompose at ambient temperature. When heated to decomposition, emits dangerous fumes. Reference to other sections: 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)	
LD50/oral/rat	2600 mg/kg
LD50/dermal/rat	> 3160 mg/kg

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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)	
LD50/dermal/rabbit	> 3160 mg/kg

Highly refined mineral oil (C15 - C50) (-)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 5000 mg/kg

Highly refined mineral oil (C15 - C50) (-)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/eye irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

TGMO 5W30 PFE	
Kinematic viscosity	@ 40°C ≥ 60 mm ² /s

Other information	: Symptoms related to the physical, chemical and toxicological characteristics : Reference to other sections: 4.2.
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SECTION 12: Ecological information

12.1. Toxicity

Environmental properties	: Ecological injuries are not known or expected under normal use. The product has not been tested. Information given is based on data on the components and the ecotoxicology of similar products.
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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)	
LC50 fish 1	11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	5,4 mg/l (48 h)
EC50 other aquatic organisms 1	2,1 mg/l (48 h)

Highly refined mineral oil (C15 - C50) (-)	
LC50 fish 1	> 5000 mg/l (Oncorhynchus mykiss)


Highly refined mineral oil (C15 - C50) (-)	
LC50 fish 1	> 5000 mg/l (Oncorhynchus mykiss)

12.2. Persistence and degradability

TGMO 5W30 PFE	
Persistence and degradability	The product itself has not been tested.

12.3. Bioaccumulative potential

TGMO 5W30 PFE	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No data available.

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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)	
Partition coefficient n-octanol/water	0,9 (23 °C)

12.4. Mobility in soil

TGMO 5W30 PFE	
Ecology - soil	The product is insoluble and floats on water. Mobility in soil : No data available.

12.5. Results of PBT and vPvB assessment

TGMO 5W30 PFE	
Results of PBT assessment	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

Other adverse effects : According to experience not expected.

SECTION 13: Disposal considerations


13.1. Waste treatment methods

Waste disposal recommendations	: Handle with care. Safe handling: see section 7 : Handling and storage . Dispose of contaminated materials in accordance with current regulations. Do not allow to enter into surface water or drains. Refer to manufacturer/supplier for information on recovery/recycling.
Additional information	: This material and its container must be disposed of as hazardous. Never use pressure to empty container. Do not pierce or burn, even after use. Delivery to an approved waste disposal company.
List of proposed waste codes/waste designations in accordance with EWC (2001/573/EC, 75/442/EEC, 91/689/EEC)	: Classified as hazardous waste according to European Union regulations The following Waste Codes are only suggestions: 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils (CH: 13 02 05 * ds), 15 01 10 packaging containing residues of or contaminated by dangerous substances (CH: 15 01 10 * ds) Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
NA	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
NA	Not applicable	Not applicable	Not applicable	Not applicable
Transport document description				
UN NA NA				
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
Not applicable				

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14.6. Special precautions for user

Special precautions for user : Not applicable

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : 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

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

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) - Highly refined mineral oil (C15 - C50)
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)


Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Switzerland

This safety datasheet has been prepared according to Swiss legislation. : Annex II, OChim / WGK 3

15.2. Chemical safety assessment

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

For the following substances of this mixture a chemical safety assessment has been carried out

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)
Highly refined mineral oil (C15 - C50)

SECTION 16: Other information

Indication of changes:


Safety datasheet sections which have been updated : 1-2-3-8-9-11-14-15-16.

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosive Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
LC50 = Median lethal concentration
LD50 = Median lethal dose
DNEL = DNEL = Derived No Effect Level
PNEC = Predicted No Effect Concentration
NA = Not applicable
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : Name (SDS) Toyota 5W-30 Premium Fuel Economy. Revision date September 04, 2015. Manufacturer/Supplier Chevron Belgium NV. ECHA (European Chemicals Agency). CONCAWE Hazard classification and labelling of petroleum substances in the European Economic Area – 2015.

Other information : Assessment/classification CLP. Article 9. Calculation method.

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Killeen Road, Dublin 12, Ireland
Tel: 00-353-1- 4190218

Malta:
Michael Debono Ltd
Notabile Road, ZBG-9017, Zebbug, Malta
Tel: 00356 2269 4000

Israël:
United Motors Ltd.
Toyota Towers, 67 Yigal Alon Street, 67443 Tel-Aviv, Israel
Tel: 00972/ 8 942 5331

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

The contents and format of this SDS are in accordance with EEC Commission Directive 2015/830/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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