

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

<b>Product name</b>	Castrol Transmax Manual FE 75W
<b>Product code</b>	469681-DE01
<b>SDS no.</b>	469681
<b>Product type</b>	Liquid.

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

General use of lubricants and greases in vehicles or machinery-Industrial  
 General use of lubricants and greases in vehicles or machinery-Professional

**Use of the substance/  
mixture** Manual transmission fluid  
 For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**1.3 Details of the supplier of the safety data sheet**

<b>Supplier</b>	Castrol Lubricants, Div.BP Europa SE - BP Belgium Amocolaan 2 2440 Geel BELGIE Tel. 03 2860811
<b>E-mail address</b>	MSDSadvice@bp.com

**1.4 Emergency telephone number**

**EMERGENCY  
TELEPHONE NUMBER** Carechem: +44 (0) 1235 239 670 (24/7)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

**Product definition** Mixture  
**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
 Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

**2.2 Label elements**

<b>Signal word</b>	No signal word.
<b>Hazard statements</b>	H412 - Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>General</b>	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	P273 - Avoid release to the environment.
<b>Response</b>	Not applicable.
<b>Storage</b>	Not applicable.
<b>Disposal</b>	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	Not applicable.
<b>Supplemental label elements</b>	Not applicable.
<b>EU Regulation (EC) No. 1907/2006 (REACH)</b>	

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## SECTION 2: Hazards identification

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** Not applicable.

**Tactile warning of danger** Not applicable.

### 2.3 Other hazards

**Results of PBT and vPvB assessment** Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** Defatting to the skin.

Experimental data on one or more of the components has been used to determine all or part of the hazard classification of this product.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Product definition** Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Synthetic base stock. Proprietary performance additives.

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≥50 - ≤75	Asp. Tox. 1, H304	[1][2]
1-Decene, homopolymer, hydrogenated	REACH #: 01-2119486452-34 EC: 500-183-1 CAS: 68037-01-4	≥10 - ≤25	Asp. Tox. 1, H304	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≥10 - ≤25	Asp. Tox. 1, H304	[1]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≤5	Not classified.	[2]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤3	Asp. Tox. 1, H304	[1][2]
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	REACH #: 01-2119521201-61 EC: 288-917-4 CAS: 85940-28-9	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	REACH #: 01-2119480426-35 01-2120052100-80 CAS: 192268-65-8 Index: 607-501-00-9	<1	Repr. 2, H361d Aquatic Chronic 4, H413	[1]
zinc isodecyl phosphorodithioate	REACH #: 01-2120767616-43 EC: 246-618-6 CAS: 25103-54-2	≤0.3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
2,6-di-tert-butylphenol	REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2	≤0.3	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]

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## SECTION 3: Composition/information on ingredients

See Section 16 for the full text of the H statements declared above.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

See Section 11 for more detailed information on health effects and symptoms.

#### Potential acute health effects

<b>Inhalation</b>	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	Defatting to the skin. May cause skin dryness and irritation.
<b>Eye contact</b>	Not classified as an eye irritant. Based on data available for this or related materials.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Inhalation</b>	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
<b>Ingestion</b>	Ingestion of large quantities may cause nausea and diarrhoea.
<b>Skin contact</b>	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
<b>Eye contact</b>	Potential risk of transient stinging or redness if accidental eye contact occurs.

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

<b>Notes to physician</b>	Treatment should in general be symptomatic and directed to relieving any effects.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Use foam or all-purpose dry chemical to extinguish.
<b>Unsuitable extinguishing media</b>	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

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

<b>Hazards from the substance or mixture</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)

### 5.3 Advice for firefighters

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## SECTION 5: Firefighting measures

<b>Special precautions for fire-fighters</b>	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
 See Section 5 for firefighting measures.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 12 for environmental precautions.  
 See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

<b>Protective measures</b>	Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilled material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

<b>Not suitable</b>	Prolonged exposure to elevated temperature
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### 7.3 Specific end use(s)

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## SECTION 7: Handling and storage

### Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<b>Limit values (Belgium).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Limit values (Belgium).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>Limit values (Belgium).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Derived No Effect Level

No DNELs/DMELs available.

#### Predicted No Effect Concentration

No PNECs available

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### Individual protection measures

##### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

##### Eye/face protection

Safety glasses with side shields.

##### Skin protection

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## SECTION 8: Exposure controls/personal protection

### Hand protection

#### General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

#### Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

#### Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

#### Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

#### Glove Thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

### Skin and body

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

**SECTION 8: Exposure controls/personal protection**

**Refer to standards:** Respiratory protection: EN 529  
 Gloves: EN 420, EN 374  
 Eye protection: EN 166  
 Filtering half-mask: EN 149  
 Filtering half-mask with valve: EN 405  
 Half-mask: EN 140 plus filter  
 Full-face mask: EN 136 plus filter  
 Particulate filters: EN 143  
 Gas/combined filters: EN 14387

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Physical state** Liquid.  
**Colour** Brown.  
**Odour** Not available.  
**Odour threshold** Not available.  
**pH** Not applicable.  
**Melting point/freezing point** Not available.  
**Initial boiling point and boiling range** Not available.  
**Pour point** -57 °C  
**Flash point** Open cup: >220°C (>428°F) [Cleveland]  
**Evaporation rate** Not available.  
**Flammability (solid, gas)** Not available.  
**Upper/lower flammability or explosive limits** Not available.  
**Vapour pressure** Not available.

Ingredient name	Vapour Pressure at 20°C		Vapour pressure at 50°C			
	mm Hg	kPa	Method	mm Hg	kPa	Method
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<0.08	<0.011	ASTM D 5191			
Dec-1-ene, homopolymer, hydrogenated	0	0	ASTM E 1194-87			
Dec-1-ene, trimers, hydrogenated	0	0	ASTM E 1194-87			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.08	<0.011	ASTM D 5191			

**Vapour density** Not available.  
**Relative density** Not available.  
**Density** <1000 kg/m³ (<1 g/cm³)  
**Solubility(ies)** insoluble in water.  
**Partition coefficient: n-octanol/water** Not applicable.

**Auto-ignition temperature**

Ingredient name	°C	°F	Method
Dec-1-ene, homopolymer, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
Dec-1-ene, trimers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159

**SECTION 9: Physical and chemical properties**

**Decomposition temperature** Not available.  
**Viscosity** Kinematic: 32.2 mm<sup>2</sup>/s (32.2 cSt) at 40°C  
 Kinematic: 6.3 to 6.8 mm<sup>2</sup>/s (6.3 to 6.8 cSt) at 100°C  
**Explosive properties** Not available.  
**Oxidising properties** Not available.

**Particle characteristics**

**Median particle size** Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

**10.2 Chemical stability** The product is stable.

**10.3 Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur.  
 Under normal conditions of storage and use, hazardous polymerisation will not occur.

**10.4 Conditions to avoid** Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials** Reactive or incompatible with the following materials: oxidising materials.

**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**

Product/ingredient name	Result / Route	Test authority / Number	Species	Dose	Exposure	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	OECD 403	Rat	>5 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	OECD 402	Rat	>5000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	OECD 423	Rat	>5000 mg/kg	-	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	LD50 Inhalation Dusts and mists	OECD 403	Rat	>5.2 mg/l	4 hours	-
	LD50 Dermal	OECD 402	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	OECD 423	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated Dec-	LD50 Dermal	OECD 402	Rat	>2000 mg/kg	-	Based on studies with similar

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1-ene, oligomers, hydrogenated							substances.
	LD50 Oral	OECD	420	Rat	>2000 mg/kg	-	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	OECD	403	Rat	>5 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	OECD	402	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	OECD	401	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	LC50 Inhalation Dusts and mists	OECD	403	Rat	>2.3 mg/l	4 hours	-
	LD50 Dermal	OECD	402	Rabbit	>20000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	3080 mg/kg	-	-
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	LD50 Dermal	-	-	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>2000 mg/kg	-	-
zinc isodecyl phosphorodithioate	LD50 Dermal	OECD	402	Rat	>5000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	OECD	401	Rat	3100 mg/kg	-	Based on studies with similar substances.
2,6-di-tert-butylphenol	LD50 Dermal	-	-	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>5000 mg/kg	-	-

**Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts zinc isodecyl phosphorodithioate	2500	N/A	N/A	N/A	N/A
	2500	N/A	N/A	N/A	N/A

**Irritation/Corrosion**

Product/ingredient name	Test authority / Test number	Species	Route / Result	Test concentration	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 404	Rabbit	Skin - Non-irritant to skin.	-	Based on studies with similar substances.
	OECD 405	Rabbit	Eyes - Severe irritant	-	Based on studies with similar substances.
1-Decene, homopolymer,	OECD 404	Rabbit	Skin - Non-irritant	-	-

**SECTION 11: Toxicological information**

hydrogenated				to skin.		
	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	-
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	-
	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	Based on studies with similar substances.
	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on studies with similar substances.
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	OECD	404	Rabbit	Skin - Irritant	-	Not classified as a skin irritant. <15%
	OECD	405	Rabbit	Eyes - Severe irritant	-	Not classified as an eye irritant. <15%
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	-
	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	-
zinc isodecyl phosphorodithioate	OECD	431	Unspecified	Skin - Non-irritant to skin.	-	RHE
	OECD	437	Unspecified	Eyes - Non-irritating to the eyes.	-	BCOP
2,6-di-tert-butylphenol	OECD	404	Rabbit	Skin - Irritant	-	-
	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	-

**Sensitiser**

Product/ingredient name	Route	Test authority / Test number	Species	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	skin	OECD 406	Guinea pig	Not sensitising	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	skin	OECD 406	Guinea pig	Not sensitising	-
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	skin	OECD 406	Guinea pig	Not sensitising	-
Distillates (petroleum),	skin	OECD 406	Guinea pig	Not sensitising	Based on studies

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solvent-dewaxed heavy paraffinic							with similar substances.
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	skin	OECD	406	Guinea pig	Not sensitising	-	
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	skin	OECD	406	Guinea pig	Not sensitising	-	
zinc isodecyl phosphorodithioate	skin	OECD	406	Guinea pig	Not sensitising		Based on studies with similar substances.
2,6-di-tert-butylphenol	skin	OECD	406	Guinea pig	Not sensitising	-	

**GERM CELL MUTAGENICITY**

Product/ingredient name	Test authority / Test number	Cell	Type	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 473 In vitro Mammalian Chromosomal Aberration Test	-	Experiment: In vitro Subject: Mammal - species unspecified	Positive	Based on studies with similar substances.
	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	-	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	-	Experiment: In vivo Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro Subject: Bacteria	Negative	-
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	-	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	-	Experiment: In vivo Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	-	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 474 Mammalian	-	Experiment: In vivo Subject: Mammal -	Negative	Based on studies with similar

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	Erythrocyte Micronucleus Test			species unspecified		substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro	Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	-	Experiment: In vitro	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	-	Experiment: In vitro	Subject: Unspecified	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	-	Experiment: In vivo	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso- Bu and iso-Pr) esters, zinc salts	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	-	Experiment: In vitro	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	-	Experiment: In vitro	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	-	Experiment: In vitro	Subject: Mammal - species unspecified	Negative	-
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	-	Experiment: In vitro	Subject: Mammal - species unspecified	Negative	-
zinc isodecyl phosphorodithioate	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro	Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	-	Experiment: In vivo	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
2,6-di-tert-butylphenol	OECD 471 Bacterial Reverse Mutation Test	-	Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 473 In	-	Experiment:	Subject:	Negative	-

**SECTION 11: Toxicological information**

in vitro Mammalian Chromosomal Aberration Test	In vitro	Mammal - species unspecified
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**Reproductive toxicity**

Product/ingredient name	Test authority / Test number	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 421	Rat	Oral	-	Negative	Negative	Negative	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	OECD 415	Rat	Oral	-	Negative	Negative	Negative	-
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD 415	Rat	Oral	-	Negative	Negative	Negative	-
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	OECD 421	Rat	Oral	-	Equivocal	Positive	Negative	Not classified.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 421	Rat	Oral	-	Negative	Negative	Negative	-
zinc isodecyl phosphorodithioate	OECD 421	Rat	Oral	-	Negative	Negative	Negative	-
2,6-di-tert-butylphenol	OECD 421	Rat	Oral	-	Equivocal	Positive	Negative	Not classified.

**Information on likely routes of exposure**

Routes of entry anticipated: Dermal, Inhalation.

**Potential acute health effects**

**Inhalation**

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

**Ingestion**

No known significant effects or critical hazards.

**Skin contact**

Defatting to the skin. May cause skin dryness and irritation.

**Eye contact**

Not classified as an eye irritant. Based on data available for this or related materials.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation**

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

**Ingestion**

No specific data.

**Skin contact**

Adverse symptoms may include the following:  
irritation  
dryness  
cracking

**Eye contact**

No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Inhalation**

Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

**Ingestion**

Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact**

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Eye contact**

Potential risk of transient stinging or redness if accidental eye contact occurs.

**Potential chronic health effects**

**General**

No known significant effects or critical hazards.

**Carcinogenicity**

No known significant effects or critical hazards.

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<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Test authority / Test number	Species	Type / Result	Exposure	Effects	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 202	Daphnia	Acute EL50 >10000 mg/l	48 hours	-	Based on studies with similar substances.
	OECD 203	Fish	Acute LL50 >100 mg/l	96 hours	-	Based on studies with similar substances.
	OECD 201	Algae	Acute NOEL ≥100 mg/l	72 hours	-	-
	OECD 211	Daphnia	Chronic NOEL ≥1000 mg/l	21 days	-	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	Equivalent to OECD 201	Algae	Acute EL50 >1000 mg/l	72 hours	-	-
	OECD 202	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	-
	OECD 203	Fish	Acute LL50 >1000 mg/l	96 hours	-	-
	OECD 211	Daphnia	Chronic NOELR 125 mg/l	21 days	-	-
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD 201	Algae	Acute EL50 >1000 mg/l	72 hours	-	Based on studies with similar substances.
	OECD 202	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	Based on studies with similar substances.
	OECD 203	Fish	Acute LL50 >1000 mg/l	96 hours	-	-
	OECD 211	Daphnia	Chronic NOELR 125 mg/l	21 days	-	Based on studies with similar substances.
	OECD 202	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 202	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	Based on studies with similar substances.
	OECD 201	Algae	Acute ErL50 100 mg/l	72 hours	-	Based on studies with similar substances.
	OECD 203	Fish	Acute LL50 >100 mg/l	96 hours	-	Based on studies with

**SECTION 12: Ecological information**

								similar substances.
	OECD	201	Algae	Chronic NOELR 100 mg/l	72 hours	-		Based on studies with similar substances.
	OECD	211	Daphnia	Chronic NOELR 10 to 1000 mg/l	21 days	-		Based on studies with similar substances.
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	OECD	201	Algae	Acute EL50 2.1 mg/l	96 hours	-		Based on studies with similar substances.
	OECD	202	Daphnia	Acute EL50 5.4 mg/l	48 hours	-		Based on studies with similar substances.
	OECD	203	Fish	Acute LL50 4.5 mg/l	96 hours	-		Based on studies with similar substances.
	OECD	201	Algae	Chronic NOEL 1 mg/l	96 hours	-		Based on studies with similar substances.
	OECD	211	Daphnia	Chronic NOEL 0.4 mg/l	21 days	-		Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD	201	Algae	Acute EC50 >100 mg/l	72 hours	-		-
	OECD	202	Daphnia	Acute EC50 >100 mg/l	48 hours	-		-
	OECD	203	Fish	Acute LC50 >100 mg/l	96 hours	-		-
	OECD	201	Algae	Chronic NOEC >100 mg/l	72 hours	-		-
	OECD	211	Daphnia	Chronic NOEC 0.026 mg/l	21 days	-		-
	OECD	210	Fish	Chronic NOEC 0.0044 mg/l	87 days	-		-
zinc isodecyl phosphorodithioate	OECD	202	Daphnia	Acute EC50 0.2 mg/l	48 hours	-		-
	OECD	201	Algae	Acute ErC50 >1.6 mg/l	72 hours	-		-
	OECD	203	Fish	Acute LC50 >0.28 mg/l	96 hours	-		-
2,6-di-tert-butylphenol	OECD	201	Algae	Acute EL50 1.2 mg/l	96 hours	-		-
	OECD	202	Daphnia	Acute EL50 0.45 mg/l	48 hours	-		-
	OECD	203	Fish	Acute LC50 1.4 mg/l	96 hours	-		-

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OECD	201	Algae	Chronic NOEC 0.64 mg/l	96 hours	-	-
OECD	211	Daphnia	Chronic NOEC 0.035 mg/l	21 days	-	-

**Environmental hazards** Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Partially biodegradable.

Product/ingredient name	Test authority / Test number	Result - Exposure	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F	31 % - Inherent - 28 days	Based on studies with similar substances.
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	OECD 301B	1.5 % - Not readily - 28 days	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 301D	0 % - Not readily - 28 days	-
zinc isodecyl phosphorodithioate	OECD 301b	1 % - Not readily - 28 days	Based on studies with similar substances.
2,6-di-tert-butylphenol	OECD 301B	24 % - Not readily - 28 days	-

### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Dec-1-ene, homopolymer, hydrogenated	>10	-	high
Dec-1-ene, trimers, hydrogenated	>10	-	high
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	4.8 to 8.8	-	high
2,6-di-tert-butylphenol	4.5	-	high

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Mobility** Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

### 12.6 Other adverse effects

**Other ecological information** Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

**Hazardous waste** Yes.

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**SECTION 13: Disposal considerations**

European waste catalogue (EWC)

Waste code	Waste designation
13 02 08*	other engine, gear and lubricating oils

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

**Methods of disposal** Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

**Special precautions** This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**References** Commission 2014/955/EU  
Directive 2008/98/EC

**SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user Not available.

14.7 Transport in bulk according to IMO instruments Not available.

**SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)  
Annex XIV - List of substances subject to authorisation  
Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

Other regulations

**REACH Status**  For the REACH status of this product please consult your company contact, as identified in Section 1.

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## SECTION 15: Regulatory information

- [United States inventory \(TSCA 8b\)](#) All components are active or exempted.
- [Australia inventory \(AIC\)](#) All components are listed or exempted.
- [Canada inventory](#) All components are listed or exempted.
- [China inventory \(IECSC\)](#) All components are listed or exempted.
- [Japan inventory \(CSCL\)](#) All components are listed or exempted.
- [Korea inventory \(KECI\)](#) All components are listed or exempted.
- [Philippines inventory \(PICCS\)](#) All components are listed or exempted.
- [Taiwan Chemical Substances Inventory \(TCSI\)](#) All components are listed or exempted.

[Ozone depleting substances \(1005/2009/EU\)](#)

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

[EU - Water framework directive - Priority substances](#)

None of the components are listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

## SECTION 16: Other information

- Abbreviations and acronyms**
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
  - ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
  - ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - CAS = Chemical Abstracts Service
  - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
  - CSA = Chemical Safety Assessment
  - CSR = Chemical Safety Report
  - DMEL = Derived Minimal Effect Level
  - DNEL = Derived No Effect Level
  - EINECS = European Inventory of Existing Commercial chemical Substances
  - ES = Exposure Scenario
  - EUH statement = CLP-specific Hazard statement
  - EWC = European Waste Catalogue
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - IMDG = International Maritime Dangerous Goods
  - LogPow = logarithm of the octanol/water partition coefficient
  - MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
  - OECD = Organisation for Economic Co-operation and Development
  - PBT = Persistent, Bioaccumulative and Toxic
  - PNEC = Predicted No Effect Concentration
  - REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
  - RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
  - RRN = REACH Registration Number
  - SADT = Self-Accelerating Decomposition Temperature
  - SVHC = Substances of Very High Concern
  - STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
  - STOT-SE = Specific Target Organ Toxicity - Single Exposure
  - TWA = Time weighted average

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**SECTION 16: Other information**

UN = United Nations  
 UVCB = Complex hydrocarbon substance  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative  
 Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4 / RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements	H Statement	Justification
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H361d	Suspected of damaging the unborn child.
	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.

Full text of classifications [CLP/GHS]	Classification	Justification
	Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
	Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
	Asp. Tox. 1	ASPIRATION HAZARD - Category 1
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2

**History**

<b>Date of issue/ Date of revision</b>	17/08/2022.
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<b>Prepared by</b>	Product Stewardship

 **Indicates information that has changed from previously issued version.**

**Notice to reader**

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

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## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

Product definition	Mixture
Code	469681-DE01
Product name	Castrol Transmax Manual FE 75W

### Section 1: Title

Short title of the exposure scenario	General use of lubricants and greases in vehicles or machinery - Industrial
List of use descriptors	<p><b>Identified use name:</b> General use of lubricants and greases in vehicles or machinery-Industrial</p> <p><b>Process Category:</b> PROC01, PROC08b, PROC09, PROC02</p> <p><b>Sector of end use:</b> SU03</p> <p><b>Subsequent service life relevant for that use:</b> No.</p> <p><b>Environmental Release Category:</b> ERC04, ERC07</p> <p><b>Specific Environmental Release Category:</b> ATIEL-ATC SPERC 4.Biv1</p>

Processes and activities covered by the exposure scenario	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.
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### Section 2 Operational conditions and risk management measures

#### Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

#### Contributing scenarios: Operational conditions and risk management measures

#### Section 2.2: Control of environmental exposure

##### Amounts used:

**EU tonnage of risk determining substance per year:** 2.63E+3 Tonnes/year

##### Frequency and duration of use:

**Emission days:** 300

##### Environment factors not influenced by risk management:

**Local freshwater dilution factor:** 10

**Local marine water dilution factor:** 100

##### Other conditions affecting environmental exposure:

Negligible wastewater emissions as process operates without water contact.

**Release fraction to air (after typical onsite RMMs):** 5.00E-05

**Release fraction to soil from process (after typical onsite RMMs):** 0

**Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan):** 5.00E-11

##### Technical conditions and measures at process level (source) to prevent release:

Common practices vary across sites thus conservative process release estimates used.

Castrol Transmax Manual FE 75W

General use of lubricants and greases in vehicles or machinery - Industrial

<b>Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:</b>	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant
<b>Organisational measures to prevent/limit release from site:</b>	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
<b>Conditions and measures related to sewage treatment plant:</b>	
Estimated substance removal from wastewater via on-site sewage treatment	0.09
Assumed domestic sewage treatment plant flow rate (m <sup>3</sup> /d)	2.00E+3
Maximum allowable site tonnage (M <sub>Safe</sub> ) based on release following total wastewater treatment removal as product:	1587.9
<b>Conditions and measures related to external treatment of waste for disposal:</b>	External treatment and disposal of waste should comply with applicable local and/or national regulations.
<b>Conditions and measures related to external recovery of waste:</b>	External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Section 3: Exposure estimation and reference to its source

<b>Exposure estimation and reference to its source - Environment</b>	
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).

<b>Exposure estimation and reference to its source - Workers</b>	
Exposure assessment (human):	No exposure scenario is presented because the product is not classified for Human Health

### Section 4: Guidance to check compliance with the exposure scenario

<b>Environment</b>	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.ATIEL.org/REACH_GES">www.ATIEL.org/REACH_GES</a>
<b>Health</b>	No exposure scenario is presented because the product is not classified for Human Health

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

Product definition	Mixture
Code	469681-DE01
Product name	Castrol Transmax Manual FE 75W

### Section 1: Title

Short title of the exposure scenario	General use of lubricants and greases in vehicles or machinery - Professional
List of use descriptors	<p><b>Identified use name:</b> General use of lubricants and greases in vehicles or machinery-Professional</p> <p><b>Process Category:</b> PROC01, PROC02, PROC08b, PROC09</p> <p><b>Sector of end use:</b> SU03</p> <p><b>Subsequent service life relevant for that use:</b> No.</p> <p><b>Environmental Release Category:</b> ERC04, ERC07</p> <p><b>Specific Environmental Release Category:</b> ATIEL-ATC SPERC 4.Biv1</p>

Processes and activities covered by the exposure scenario	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.
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### Section 2 Operational conditions and risk management measures

#### Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

#### Contributing scenarios: Operational conditions and risk management measures

#### Section 2.2: Control of environmental exposure

##### Amounts used:

**EU tonnage of risk determining substance per year:** 2.63E+3 Tonnes/year

##### Frequency and duration of use:

**Emission days:** 300

##### Environment factors not influenced by risk management:

**Local freshwater dilution factor:** 10

**Local marine water dilution factor:** 100

##### Other conditions affecting environmental exposure:

Negligible wastewater emissions as process operates without water contact.

**Release fraction to air (after typical onsite RMMs):** 5.00E-05

**Release fraction to soil from process (after typical onsite RMMs):** 0

**Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan):** 5.00E-11

##### Technical conditions and measures at process level (source) to prevent release:

Common practices vary across sites thus conservative process release estimates used.

Castrol Transmax Manual FE 75W

General use of lubricants and greases in vehicles or machinery - Professional

<b>Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:</b>	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant
<b>Organisational measures to prevent/limit release from site:</b>	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
<b>Conditions and measures related to sewage treatment plant:</b>	
Estimated substance removal from wastewater via on-site sewage treatment	0.09
Assumed domestic sewage treatment plant flow rate (m <sup>3</sup> /d)	2.00E+3
Maximum allowable site tonnage (M <sub>Safe</sub> ) based on release following total wastewater treatment removal as product:	20.1
<b>Conditions and measures related to external treatment of waste for disposal:</b>	External treatment and disposal of waste should comply with applicable local and/or national regulations.
<b>Conditions and measures related to external recovery of waste:</b>	External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Section 3: Exposure estimation and reference to its source

<b>Exposure estimation and reference to its source - Environment</b>	
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).

<b>Exposure estimation and reference to its source - Workers</b>	
Exposure assessment (human):	No exposure scenario is presented because the product is not classified for Human Health

### Section 4: Guidance to check compliance with the exposure scenario

<b>Environment</b>	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.ATIEL.org/REACH_GES">www.ATIEL.org/REACH_GES</a>
<b>Health</b>	No exposure scenario is presented because the product is not classified for Human Health