

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

### 1.1 Product identifier

<b>Product name</b>	Castrol Transmax Axle Long Life 75W-140
<b>Product code</b>	469697-DE01
<b>SDS #</b>	469697
<b>Product type</b>	Liquid.

### Use of the substance/ mixture

Gear lubricant  
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>	Офіційний імпортер ТОВ «ФТЗ Україна», вул. Костянтинівська, 2-А, м. Київ, 04071, Україна.
	Тел. +380-44-568-5106.
<b>E-mail address</b>	MSDSadvice@bp.com

### 1.4 Emergency telephone number

<b>EMERGENCY TELEPHONE NUMBER</b>	Carechem: +44 (0) 1235 239 670 (24/7)
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	Mixture
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#### 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><u>Precautionary statements</u></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>	Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction.

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

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	Not applicable.
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#### Special packaging requirements

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		<b>Language</b> ENGLISH

**SECTION 2: Hazards identification**

**Containers to be fitted with child-resistant fastenings** Not applicable.  
**Tactile warning of danger** Not applicable.

**2.3 Other hazards**

**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.  
**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.** This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.  
**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  
 Poly-alpha-olefin. Ester. Proprietary performance additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<input checked="" type="checkbox"/> Decene, homopolymer, hydrogenated	REACH #: 01-2119486452-34 EC: 500-183-1 CAS: 68037-01-4	≤10	Asp. Tox. 1, H304	-	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119486452-34 EC: 500-393-3 CAS: 157707-86-3	≤10	Asp. Tox. 1, H304	-	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≤10	Asp. Tox. 1, H304	-	[1]
tris(methylphenyl) phosphate	REACH #: 01-2119531335-46 EC: 215-548-8 CAS: 1330-78-5	≤1.2	Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Amines, C10-14-tert-alkyl	REACH #: 01-2119456798-18 EC: 701-175-2 CAS: -	≤0.2	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l M [Acute] = 1 M [Chronic] = 1	[1]
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	REACH #: 01-2119473797-19 EC: 627-034-4 CAS: 1213789-63-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 10	[1]
Alcohols, C12-16, ethoxylated	REACH #: 01-2119487984-16 EC: 500-213-3 CAS: 68439-50-9	≤0.1	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 10	[1]

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

Type

[1] Substance classified with a health or environmental hazard  
 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. Product not classified for sensitisation. Based on data available for this or related materials.
<b>Eye contact</b>	See: Section 11. Toxicological Information - Potential acute health effects: Eye contact

#### 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) phosphorus oxides

### 5.3 Advice for firefighters

<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

#### For non-emergency personnel

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 spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.

#### For emergency responders

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 spilt 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

#### Small spill

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.

#### Large spill

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 spilt 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

### 7.1 Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilt 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.

#### Advice on general occupational hygiene

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.

#### Not suitable

Prolonged exposure to elevated temperature

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

##### Europe

No exposure limit value known.

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.

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

**Recommended monitoring procedures**

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.

**Biological exposure indices**

**Product/ingredient name**

**Exposure indices**

No exposure indices known.

**Derived No Effect Level**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Amines, C12-14-tert-alkyl	DNEL	Long term Inhalation	- 12.5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	- 12.1 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	- 2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	- 1.2 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Oral	- 0.35 mg/kg bw/day	General population	Systemic

**PNECs**

**Product/ingredient name**

**Result**

Amines, C10-14-tert-alkyl

**Fresh water**  
0.001 mg/l

**Sewage Treatment Plant**  
0.635 mg/l

**Fresh water sediment**  
2.14 mg/kg

**Marine water sediment**  
0.214 mg/kg

**Soil**  
0.428 mg/kg

**Secondary Poisoning**  
4.71 mg/kg

**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.

## SECTION 8: Exposure controls/personal protection

### [Skin 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

<b>Refer to standards:</b>	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
<b>Environmental exposure controls</b>	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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	Liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Pour point</b>	-54 °C
<b>Flash point</b>	Open cup: >180°C (>356°F) [Cleveland ]
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Lower and upper explosion limit</b>	Not available.
<b>Vapour pressure</b>	>0.01 kPa
<b>Vapour density</b>	Not available.
<b>Density and/or Relative density</b>	<1000 kg/m <sup>3</sup> (<1 g/cm <sup>3</sup> ) at 15°C
<b>Solubility(ies)</b>	

Media	Result
water	Not soluble

<b>Partition coefficient n-octanol/water (log value)</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Kinematic viscosity</b>	Kinematic: 182 mm <sup>2</sup> /s (182 cSt) at 40°C Kinematic: 24.5 to 25.5 mm <sup>2</sup> /s (24.5 to 25.5 cSt) at 100°C
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
<b>10.2 Chemical stability</b>	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.

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## SECTION 10: Stability and reactivity

<b>10.4 Conditions to avoid</b>	Avoid all possible sources of ignition (spark or flame).
<b>10.5 Incompatible materials</b>	Reactive or incompatible with the following materials: oxidising materials.
<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product/ingredient name

Dec-1-ene, homopolymer, hydrogenated

##### Result

**Rat - Oral - LD50**  
>5000 mg/kg  
OECD 423

**Rat - Dermal - LD50**  
>2000 mg/kg  
OECD 402

**Rat - Inhalation - LD50 Dusts and mists**  
>5.2 mg/l [4 hours]  
OECD 403

Dec-1-ene, trimers, hydrogenated

**Rat - Oral - LD50**  
>5000 mg/kg  
OECD 423

**Rat - Dermal - LD50**  
>2000 mg/kg  
OECD 402

**Rat - Inhalation - LD50 Dusts and mists**  
>5.2 mg/l [4 hours]  
OECD 403

Dec-1-ene, trimers, hydrogenated

**Rat - Oral - LD50**  
>5000 mg/kg  
OECD 423

**Rat - Dermal - LD50**  
>2000 mg/kg  
OECD 402

**Rat - Inhalation - LD50 Dusts and mists**  
>5.2 mg/l [4 hours]  
OECD 403

Amines, C10-14-tert-alkyl

**Rat - Oral - LD50**  
612 mg/kg  
OECD 401

**Rat - Dermal - LD50**  
251 mg/kg  
OECD 402

**Rat - Inhalation - LC50 Vapour**  
1.19 mg/l [4 hours]  
OECD 403

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Rat - Oral - LD50**  
1689 mg/kg  
OECD 401

#### Acute toxicity estimates

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**SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Castrol Transmax Axle Long Life 75W-140 Amines, C10-14-tert-alkyl (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	N/A 500 500	154274.2 300 N/A	N/A N/A N/A	257.1 0.5 N/A	N/A N/A N/A

**Skin corrosion/irritation**

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Result**

**Rabbit - Skin - Non-irritant to skin.**  
OECD 404

Dec-1-ene, trimers, hydrogenated

**Rabbit - Skin - Non-irritant to skin.**  
OECD 404

Dec-1-ene, trimers, hydrogenated

**Rabbit - Skin - Non-irritant to skin.**  
OECD 404

Amines, C10-14-tert-alkyl

**Rabbit - Skin - Visible necrosis**

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Rabbit - Skin - Visible necrosis**  
OECD 404

**Serious eye damage/eye irritation**

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Result**

**Rabbit - Eyes - Non-irritating to the eyes.**  
OECD 405

Dec-1-ene, trimers, hydrogenated

**Rabbit - Eyes - Non-irritating to the eyes.**  
OECD 405

Dec-1-ene, trimers, hydrogenated

**Rabbit - Eyes - Non-irritating to the eyes.**  
OECD 405

Amines, C10-14-tert-alkyl

**Rabbit - Eyes - Visible necrosis**

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Rabbit - Eyes - Severe irritant**  
OECD 405

**Respiratory corrosion/irritation**

Not available.

**Respiratory or skin sensitization**

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Result**

**Guinea pig - skin**  
OECD 406  
Result: Not sensitising

Dec-1-ene, trimers, hydrogenated

**Guinea pig - skin**  
OECD 406  
Result: Not sensitising

Dec-1-ene, trimers, hydrogenated

**Guinea pig - skin**  
OECD 406  
Result: Not sensitising

Amines, C10-14-tert-alkyl

**Guinea pig - skin**  
OECD 406  
Result: Sensitising

**SECTION 11: Toxicological information**

**Germ cell mutagenicity**

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Result**

**In vitro - Bacteria**

OECD [Bacterial Reverse Mutation Test]

Result: Negative

**In vitro - Mammal - species unspecified**

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

**In vivo - Mammal - species unspecified**

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

Dec-1-ene, trimers, hydrogenated

**In vitro - Bacteria**

OECD [Bacterial Reverse Mutation Test]

Result: Negative

**In vitro - Mammal - species unspecified**

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

**In vivo - Mammal - species unspecified**

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

Dec-1-ene, trimers, hydrogenated

**In vitro - Bacteria**

OECD [Bacterial Reverse Mutation Test]

Result: Negative

**In vitro - Mammal - species unspecified**

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

**In vivo - Mammal - species unspecified**

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

Amines, C10-14-tert-alkyl

**In vitro - Bacteria**

Bacterial Reverse Mutation Test

Result: Negative

**In vitro - Mammal - species unspecified**

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

**In vivo - Mammal - species unspecified**

Mammalian Erythrocyte Micronucleus Test

Result: Negative

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**In vitro - Bacteria**

OECD 471

Result: Negative

**In vitro - Unspecified**

OECD 473

Result: Negative

**In vitro - Mammal - species unspecified**

OECD 476

Result: Negative

**Carcinogenicity**

Not available.

**SECTION 11: Toxicological information**

**Reproductive toxicity**

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Result**

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Dec-1-ene, trimers, hydrogenated

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Dec-1-ene, trimers, hydrogenated

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Amines, C10-14-tert-alkyl

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Rat - Oral**

OECD 421

Maternal toxicity: Positive

Fertility effects: Negative

Developmental: Negative

**Specific target organ toxicity (single exposure)**

**Product/ingredient name**

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Result**

STOT SE 3, H335 (Respiratory tract irritation)

**Specific target organ toxicity (repeated exposure)**

**Product/ingredient name**

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Result**

STOT RE 2, H373

**Aspiration hazard**

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated  
Dec-1-ene, trimers, hydrogenated  
Dec-1-ene, trimers, hydrogenated  
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Result**

ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure**

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

**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. Product not classified for sensitisation. Based on data available for this or related materials.

**Eye contact**

See: Section 11. Toxicological Information - Potential acute health effects: Eye contact

**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.

**SECTION 11: Toxicological information**

**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**

Not available.

**Conclusion/Summary [Product]** Not available.

**General** No known significant effects or critical hazards.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**Conclusion/Summary [Product]** This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result
Dec-1-ene, homopolymer, hydrogenated	<p><b>Acute - EL50</b> Equivalent to OECD 201 Algae &gt;1000 mg/l [72 hours]</p> <p><b>Acute - EL50</b> OECD 202 Daphnia &gt;1000 mg/l [48 hours]</p> <p><b>Chronic - NOELR</b> OECD 211 Daphnia 125 mg/l [21 days]</p> <p><b>Acute - LL50</b> OECD 203 Fish &gt;1000 mg/l [96 hours]</p>
Dec-1-ene, trimers, hydrogenated	<p><b>Acute - EL50</b> Equivalent to OECD 201 Algae &gt;1000 mg/l [72 hours]</p> <p><b>Acute - EL50</b> OECD 202 Daphnia &gt;1000 mg/l [48 hours]</p> <p><b>Chronic - NOELR</b> OECD 211 Daphnia 125 mg/l [21 days]</p>

**SECTION 12: Ecological information**

Dec-1-ene, trimers, hydrogenated	<p><b>Acute - LL50</b>                  OECD 203                  Fish                  &gt;1000 mg/l [96 hours]</p> <p><b>Acute - EL50</b>                  OECD 201                  Algae                  &gt;1000 mg/l [72 hours]</p> <p><b>Acute - EL50</b>                  OECD 202                  Daphnia                  &gt;1000 mg/l [48 hours]</p> <p><b>Chronic - NOELR</b>                  OECD 211                  Daphnia                  125 mg/l [21 days]</p> <p><b>Acute - LL50</b>                  OECD 203                  Fish                  &gt;1000 mg/l [96 hours]</p>
Amines, C10-14-tert-alkyl	<p><b>Acute - ErC50</b>                  OECD 201                  Algae                  0.44 mg/l [72 hours]</p> <p><b>Acute - EC50</b>                  OECD 202                  Daphnia                  2.5 mg/l [48 hours]</p> <p><b>Acute - LC50</b>                  OECD 203                  Fish                  1.3 mg/l [96 hours]</p> <p><b>Acute - EC50</b>                  OECD 209                  Micro-organism                  63.5 mg/l [3 hours]</p> <p><b>Chronic - NOEC</b>                  OECD 201                  Algae                  0.05 mg/l [72 hours]</p>
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	<p><b>Acute - ErC50</b>                  OECD 201                  Algae                  0.04 mg/l [96 hours]</p> <p><b>Chronic - NOEC</b>                  OECD 201                  Algae                  0.01 mg/l [96 hours]</p> <p><b>Chronic - NOEC</b>                  OECD 211                  Daphnia                  0.013 mg/l [21 days]</p> <p><b>Acute - LC50</b>                  EPA OPPTS 850.1085                  Fish                  0.06 mg/l [96 hours]</p>

**Environmental hazards**

Harmful to aquatic life with long lasting effects.

**SECTION 12: Ecological information**

**12.2 Persistence and degradability**

Not expected to be rapidly degradable.

Product/ingredient name	Result
Amides, C10-14-tert-alkyl	OECD 301D 21.8% [28 days] - Not readily
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	OECD 301B 66% [28 days] - Readily

**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	>6.5	-	High
Dec-1-ene, trimers, hydrogenated	>10	-	High
tris(methylphenyl) phosphate	5.93	-	High
Amines, C10-14-tert-alkyl	2.9	-	Low
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	4.33	-	High

**12.4 Mobility in soil**

**Soil/water partition coefficient**

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	3.43	2699.8

**Results of PMT and vPvM assessment**

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Dec-1-ene, homopolymer, hydrogenated	No	No	No	No	No	No	No
Dec-1-ene, trimers, hydrogenated	No	No	No	No	No	No	No
Dec-1-ene, trimers, hydrogenated	No	No	No	No	No	No	No
tris(methylphenyl) phosphate	No	No	No	No	No	No	No
Amines, C10-14-tert-alkyl	No	No	No	No	No	No	No
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	No	No	No	No	No	No	No
Alcohols, C12-16, ethoxylated	No	No	No	No	No	No	No

**Mobility**

Spillages may penetrate the soil causing ground water contamination.

**Conclusion/Summary**

The product does not meet the criteria to be considered as a PMT or vPvM.

**12.5 Results of PBT and vPvB assessment**

**Regulation (EC) No. 1907/2006 [REACH]**

Product/ingredient name	PBT	P	B	T	vPvB	vP
Dec-1-ene, homopolymer, hydrogenated	No	N/A	N/A	No	N/A	N/A
Dec-1-ene, trimers, hydrogenated	No	N/A	N/A	No	N/A	N/A
Dec-1-ene, trimers, hydrogenated	No	N/A	N/A	No	N/A	N/A
tris(methylphenyl) phosphate	N/A	N/A	N/A	Yes	N/A	N/A
Amines, C10-14-tert-alkyl	No	N/A	N/A	No	N/A	N/A
(Z)-octadec-9-enylamine,	N/A	N/A	N/A	Yes	N/A	N/A

**SECTION 12: Ecological information**

C16-18-(even numbered, saturated and unsaturated)-alkylamines Alcohols, C12-16, ethoxylated	No	N/A	N/A	No	N/A	N/A	N/A
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**Regulation (EC) No. 1272/2008 [CLP]**

Product/ingredient name	PBT	P	B	T	vPvB	vP
Dec-1-ene, homopolymer, hydrogenated	No	No	No	No	No	No
Dec-1-ene, trimers, hydrogenated	No	No	No	No	No	No
Dec-1-ene, trimers, hydrogenated	No	No	No	No	No	No
tris(methylphenyl) phosphate	No	No	No	No	No	No
Amines, C10-14-tert-alkyl	No	No	No	No	No	No
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	No	No	No	No	No	No
Alcohols, C12-16, ethoxylated	No	No	No	No	No	No

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** The product does not meet the criteria to be considered as a PBT or vPvB.

**12.6 Endocrine disrupting properties**

Not available.

**Conclusion/Summary [Product]** This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

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

**12.7 Other adverse effects** No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**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.

**European waste catalogue (EWC)**

Waste code	Waste designation
13 02 06*	synthetic 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 or ID 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 Maritime 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.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

Product/ingredient name	%	Designation [Usage]
Castrol Transmax Axle Long Life 75W-140 (Neuhof) Parent	≥90	3

Labelling Not applicable.

[Other regulations](#)

[REACH Status](#)

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

[United States inventory \(TSCA 8b\)](#)

All components are active or exempted.

[Australia inventory \(AIIIC\)](#)

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.

[Explosive precursors](#)

Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Not listed.

## SECTION 15: Regulatory information

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

Not 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  
 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 classifications \[CLP/GHS\]](#)

**SECTION 16: Other information**

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
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 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<b>Full text of abbreviated H statements</b>	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H330	Fatal if inhaled.
	H335	May cause respiratory irritation.
	H361f	Suspected of damaging fertility.
	H373	May cause damage to organs through prolonged or repeated exposure.
	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.

<b>Full text of classifications [CLP/GHS]</b>	Acute Tox. 2	ACUTE TOXICITY - Category 2
	Acute Tox. 3	ACUTE TOXICITY - Category 3
	Acute Tox. 4	ACUTE TOXICITY - Category 4
	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
	Asp. Tox. 1	ASPIRATION HAZARD - Category 1
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2
	Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
	Skin Sens. 1A	SKIN SENSITISATION - Category 1A
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

**History**

<b>Date of issue/ Date of revision</b>	15/10/2025.
<b>Date of previous issue</b>	10/07/2025.
<b>Prepared by</b>	Product Stewardship

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

**Notice to reader**

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**SECTION 16: Other information**

**Product name** Castrol Transmax Axle Long Life 75W-140

**Product code** 469697-DE01

**Page:** 19/26

**Version** 9

**Date of issue** 15 October 2025

**Format** Ukraine  
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**SECTION 16: Other information**

Result	Product/ingredient name
<p><b>Rat - Dermal - LD50</b>                      &gt;2000 mg/kg                      OECD 402</p>	Amines, C10-14-tert-alkyl
<p><b>Rat - Inhalation - LD50 Dusts and mists</b>                      &gt;5.2 mg/l [4 hours]                      OECD 403</p>	
<p><b>Rat - Oral - LD50</b>                      &gt;5000 mg/kg                      OECD 423</p>	Dec-1-ene, trimers, hydrogenated
<p><b>Rat - Dermal - LD50</b>                      &gt;2000 mg/kg                      OECD 402</p>	
<p><b>Rat - Inhalation - LD50 Dusts and mists</b>                      &gt;5.2 mg/l [4 hours]                      OECD 403</p>	
<p><b>Rat - Oral - LD50</b>                      &gt;5000 mg/kg                      OECD 423</p>	Dec-1-ene, trimers, hydrogenated
<p><b>Rat - Dermal - LD50</b>                      &gt;2000 mg/kg                      OECD 402</p>	
<p><b>Rat - Inhalation - LD50 Dusts and mists</b>                      &gt;5.2 mg/l [4 hours]                      OECD 403</p>	
<p><b>Rat - Oral - LD50</b>                      612 mg/kg                      OECD 401</p>	Amines, C10-14-tert-alkyl
<p><b>Rat - Dermal - LD50</b>                      251 mg/kg                      OECD 402</p>	
<p><b>Rat - Inhalation - LC50 Vapour</b>                      1.19 mg/l [4 hours]                      OECD 403</p>	
<p><b>Rat - Oral - LD50</b>                      1689 mg/kg                      OECD 401</p>	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

[Conclusion/Summary \[Product\]](#)

**Skin corrosion/irritation**

Result	Product/ingredient name
<p><b>Rabbit - Skin - Non-irritant to skin.</b>                      OECD 404</p>	Dec-1-ene, homopolymer, hydrogenated
<p><b>Rabbit - Skin - Non-irritant to skin.</b>                      OECD 404</p>	Dec-1-ene, trimers, hydrogenated
<p><b>Rabbit - Skin - Non-irritant to skin.</b>                      OECD 404</p>	Dec-1-ene, trimers, hydrogenated
<p><b>Rabbit - Skin - Visible necrosis</b></p>	Amines, C10-14-tert-alkyl
<p><b>Rabbit - Skin - Visible necrosis</b>                      OECD 404</p>	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

Not available.

[Conclusion/Summary \[Product\]](#)

**Serious eye damage/eye irritation**

<b>Product name</b> Castrol Transmax Axle Long Life 75W-140	<b>Product code</b> 469697-DE01	<b>Page:</b> 20/26
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		<b>Language</b> ENGLISH

**Result**

**Rabbit - Eyes - Non-irritating to the eyes.**  
OECD 405

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Rabbit - Eyes - Non-irritating to the eyes.**  
OECD 405

Dec-1-ene, trimers, hydrogenated

**Rabbit - Eyes - Non-irritating to the eyes.**  
OECD 405

Dec-1-ene, trimers, hydrogenated

**Rabbit - Eyes - Visible necrosis**

Amines, C10-14-tert-alkyl

**Rabbit - Eyes - Severe irritant**  
OECD 405

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Conclusion/Summary [Product]** Not available.

**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Respiratory or skin sensitization**

**Result**

**Guinea pig - skin**  
OECD 406  
Result: Not sensitising

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Guinea pig - skin**  
OECD 406  
Result: Not sensitising

Dec-1-ene, trimers, hydrogenated

**Guinea pig - skin**  
OECD 406  
Result: Not sensitising

Dec-1-ene, trimers, hydrogenated

**Guinea pig - skin**  
OECD 406  
Result: Sensitising

Amines, C10-14-tert-alkyl

**Skin**

**Conclusion/Summary [Product]** Not available.

**Respiratory**

**Conclusion/Summary [Product]** Not available.

**Germ cell mutagenicity**

**Result**

**In vitro - Bacteria**  
OECD [Bacterial Reverse Mutation Test]  
Result: Negative

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**In vitro - Mammal - species unspecified**  
OECD [In vitro Mammalian Chromosomal Aberration Test]  
Result: Negative

**In vivo - Mammal - species unspecified**  
OECD [Mammalian Erythrocyte Micronucleus Test]  
Result: Negative

**In vitro - Bacteria**  
OECD [Bacterial Reverse Mutation Test]  
Result: Negative

Dec-1-ene, trimers, hydrogenated

**In vitro - Mammal - species unspecified**  
OECD [In vitro Mammalian Chromosomal Aberration Test]

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Result: Negative

**In vivo - Mammal - species unspecified**

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

**In vitro - Bacteria**

OECD [Bacterial Reverse Mutation Test]

Result: Negative

Dec-1-ene, trimers, hydrogenated

**In vitro - Mammal - species unspecified**

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

**In vivo - Mammal - species unspecified**

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

**In vitro - Bacteria**

Bacterial Reverse Mutation Test

Result: Negative

Amines, C10-14-tert-alkyl

**In vitro - Mammal - species unspecified**

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

**In vivo - Mammal - species unspecified**

Mammalian Erythrocyte Micronucleus Test

Result: Negative

**In vitro - Bacteria**

OECD 471

Result: Negative

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**In vitro - Unspecified**

OECD 473

Result: Negative

**In vitro - Mammal - species unspecified**

OECD 476

Result: Negative

**Conclusion/Summary [Product]**

Not available.

**Carcinogenicity**

Not available.

**Conclusion/Summary [Product]**

Not available.

**Reproductive toxicity**

**Result**

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

**Product/ingredient name**

Dec-1-ene, homopolymer, hydrogenated

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Dec-1-ene, trimers, hydrogenated

**Rat - Oral**

OECD 415

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Dec-1-ene, trimers, hydrogenated

**Rat - Oral**  
 OECD 415  
 Amines, C10-14-tert-alkyl  
Maternal toxicity: Negative  
Fertility effects: Negative  
Developmental: Negative

**Rat - Oral**  
 OECD 421  
 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines  
Maternal toxicity: Positive  
Fertility effects: Negative  
Developmental: Negative

**Conclusion/Summary [Product]** Not available.

**Specific target organ toxicity (single exposure)**

**Result**  
 STOT SE 3, H335 (Respiratory tract irritation)

**Product/ingredient name**  
 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Specific target organ toxicity (repeated exposure)**

**Result**  
 STOT RE 2, H373

**Product/ingredient name**  
 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Aspiration hazard**

**Result**  
 ASPIRATION HAZARD - Category 1  
 ASPIRATION HAZARD - Category 1  
 ASPIRATION HAZARD - Category 1  
 ASPIRATION HAZARD - Category 1

**Product/ingredient name**  
 Dec-1-ene, homopolymer, hydrogenated  
 Dec-1-ene, trimers, hydrogenated  
 Dec-1-ene, trimers, hydrogenated  
 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Information on likely routes of exposure** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

**Result**  
 Acute - EL50  
 Equivalent to OECD 201  
 Algae  
 >1000 mg/l [72 hours]

**Product/ingredient name**  
 Dec-1-ene, homopolymer, hydrogenated

**Acute - EL50**  
 OECD 202  
 Daphnia  
 >1000 mg/l [48 hours]

**Chronic - NOELR**  
 OECD 211  
 Daphnia  
 125 mg/l [21 days]

**Acute - LL50**  
 OECD 203  
 Fish  
 >1000 mg/l [96 hours]

Dec-1-ene, trimers, hydrogenated

**Acute - EL50**  
 Equivalent to OECD 201  
 Algae  
 >1000 mg/l [72 hours]

**Acute - EL50**  
 OECD 202  
 Daphnia  
 >1000 mg/l [48 hours]

**Chronic - NOELR**  
 OECD 211  
 Daphnia  
 125 mg/l [21 days]

**Acute - LL50**

OECD 203  
Fish  
>1000 mg/l [96 hours]

**Acute - EL50**

OECD 201  
Algae  
>1000 mg/l [72 hours]

Dec-1-ene, trimers, hydrogenated

**Acute - EL50**

OECD 202  
Daphnia  
>1000 mg/l [48 hours]

**Chronic - NOELR**

OECD 211  
Daphnia  
125 mg/l [21 days]

**Acute - LL50**

OECD 203  
Fish  
>1000 mg/l [96 hours]

**Acute - ErC50**

OECD 201  
Algae  
0.44 mg/l [72 hours]

Amines, C10-14-tert-alkyl

**Acute - EC50**

OECD 202  
Daphnia  
2.5 mg/l [48 hours]

**Acute - LC50**

OECD 203  
Fish  
1.3 mg/l [96 hours]

**Acute - EC50**

OECD 209  
Micro-organism  
63.5 mg/l [3 hours]

**Chronic - NOEC**

OECD 201  
Algae  
0.05 mg/l [72 hours]

**Acute - ErC50**

OECD 201  
Algae  
0.04 mg/l [96 hours]

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Chronic - NOEC**

OECD 201  
Algae  
0.01 mg/l [96 hours]

**Chronic - NOEC**

OECD 211  
Daphnia  
0.013 mg/l [21 days]

**Acute - LC50**

EPA OPPTS 850.1085  
Fish  
0.06 mg/l [96 hours]

**Result**

**Product/ingredient name**

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OECD 301D

Amines, C10-14-tert-alkyl

21.8% [28 days] - Not readily

OECD 301B

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

66% [28 days] - Readily

**Soil/water partition coefficient**

Koc	logKoc	Product/ingredient name
2699.8	3.43	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

**Results of PMT and vPvM assessment**

vM	vP	vPvM	T	M	P	PMT	Product/ingredient name
No	No	No	No	No	No	No	Dec-1-ene, homopolymer, hydrogenated
No	No	No	No	No	No	No	Dec-1-ene, trimers, hydrogenated
No	No	No	No	No	No	No	Dec-1-ene, trimers, hydrogenated
No	No	No	No	No	No	No	tris(methylphenyl) phosphate
No	No	No	No	No	No	No	Amines, C10-14-tert-alkyl
No	No	No	No	No	No	No	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines
No	No	No	No	No	No	No	Alcohols, C12-16, ethoxylated

Spillages may penetrate the soil causing ground water contamination.

**Mobility**

The product does not meet the criteria to be considered as a PMT or vPvM.

**Conclusion/Summary**

**Regulation (EC) No. 1907/2006 [REACH]**

vP	vPvB	T	B	P	PBT	Product/ingredient name
N/A	N/A	No	N/A	N/A	No	Dec-1-ene, homopolymer, hydrogenated
N/A	N/A	No	N/A	N/A	No	Dec-1-ene, trimers, hydrogenated
N/A	N/A	No	N/A	N/A	No	Dec-1-ene, trimers, hydrogenated
N/A	N/A	Yes	N/A	N/A	N/A	tris(methylphenyl) phosphate
N/A	N/A	No	N/A	N/A	No	Amines, C10-14-tert-alkyl
N/A	N/A	Yes	N/A	N/A	N/A	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines
N/A	N/A	No	N/A	N/A	No	Alcohols, C12-16, ethoxylated

**Regulation (EC) No. 1272/2008 [CLP]**

vP	vPvB	T	B	P	PBT	Product/ingredient name
No	No	No	No	No	No	Dec-1-ene, homopolymer, hydrogenated
No	No	No	No	No	No	Dec-1-ene, trimers, hydrogenated
No	No	No	No	No	No	Dec-1-ene, trimers, hydrogenated
No	No	No	No	No	No	tris(methylphenyl) phosphate
No	No	No	No	No	No	Amines, C10-14-tert-alkyl
No	No	No	No	No	No	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines
No	No	No	No	No	No	Alcohols, C12-16, ethoxylated

The product does not meet the criteria to be considered as a PBT or vPvB.

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]**

Not available.

This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

No known significant effects or critical hazards.