SAFETY DATA SHEET

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

1.1 Product identifier

Product name	**Castrol Transmax Axle Long Life 75W-140**
Product code	469697-DE01
SDS #	469697
Original preparation date	26/04/2018
Product type	Liquid.

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

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

Supplier	Castrol Madeni Yağlar Ticaret A.Ş İçerenköy Mah. Değirmen Yolu Cad. Mengerler Blok No: 28/1 İç Kapı No: 12 Ataşehir/İstanbul
E-mail address	MSDSadvice@bp.com

1.4 Emergency telephone number

EMERGENCY TELEPHONE NUMBER	CASTROL DIRECT 0212 473 77 37 Carechem: +44 (0) 1235 239 670 (24/7) Ministry of Health National Poison Information Centre: 114 (24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation SEA: RG.-10/12/2020-31330

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

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

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

2.2 Label elements

Signal word	No signal word.
Hazard statements	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	P273 - Avoid release to the environment.
Response	Not applicable.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.

SECTION 2: Hazards identification

Special packaging requirements

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 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 None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture

Poly-alpha-olefin. Ester. Proprietary performance additives.

Product/ingredient name	Identifiers	%	SEA: RG.-10/12/2020-31330	Type
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	CAS: 68037-01-4 EC: 500-183-1	≤10	Asp. Tox. 1, H304	[1]
Dec-1-ene, trimers, hydrogenated	CAS: 68037-01-4 EC: 500-183-1	≤10	Asp. Tox. 1, H304	[1]
Dec-1-ene, trimers, hydrogenated	CAS: 68037-01-4 EC: 500-183-1	≤10	Asp. Tox. 1, H304	[1]
tris(metilfenil) fosfat	CAS: 1330-78-5 EC: 215-548-8	≤1.2	Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Amines, C10-14-tert-alkyl	CAS: 68955-53-3 EC: 273-279-1	≤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 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS: 112-90-3 EC: 204-015-5	≤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 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
Alcohols, C12-16, ethoxylated	CAS: 68551-12-2 EC: 500-221-7	≤0.1	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	[1]

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion 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 adverse health effects persist or are severe.

Skin contact 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 symptoms occur. If skin irritation or rash occurs: Get medical advice/attention.

SECTION 4: First aid measures

Eye contact 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.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects.

Hazardous combustion products Combustion products may include the following:
phosphorus oxides
carbon oxides (CO, CO_2) (carbon monoxide, carbon dioxide)

5.3 Advice for firefighters

Special precautions for fire-fighters 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.

Special protective equipment for fire-fighters Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. 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. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

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.

SECTION 6: Accidental release measures

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

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilt material and runoff with soil and surface waterways.

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. Contaminated work clothing should not be allowed out of the workplace. 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 original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

7.3 Specific end use(s)

Recommendations

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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.

Biological exposure indices

No exposure indices known.

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.

DNELs/DMELs

Product/ingredient name	Result
Amines, C10-14-tert-alkyl	**DNEL - Workers - Long term - Inhalation** 12.5 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 12.1 mg/m³ Effects: Local **DNEL - General population - Long term - Inhalation** 2.5 mg/m³ Effects: Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Long term - Inhalation
1.2 mg/m³
Effects: Local

DNEL - General population - Long term - Oral
0.35 mg/kg bw/day
Effects: 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

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.
Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.
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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. 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

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

SECTION 8: Exposure controls/personal protection

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.

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 Amber.

Odour Not available.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Pour point -54 °C

Flash point Open cup: >180°C (>356°F) [Cleveland]

Evaporation rate Not available.

Flammability

Upper/lower flammability or explosive limits Not available.

Vapour pressure >0.01 kPa

Vapour density Not available.

Relative density Not available.

Density <1000 kg/m³ (<1 g/cm³) at 15°C

Solubility(ies)

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water Not applicable.

Auto-ignition temperature

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

Decomposition temperature Not available.

Viscosity Kinematic: 182 mm^2/s (182 cSt) at 40°C
Kinematic: 24.5 to 25.5 mm^2/s (24.5 to 25.5 cSt) at 100°C

Explosive properties Not available.

Oxidising properties Not available.

Particle characteristics

Median particle size Not applicable.

9.2 Other information

SECTION 9: Physical and chemical properties

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
1-Decene, homopolymer, 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, homopolymer, 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, homopolymer, hydrogenated Dec-1-ene, oligomers, 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, C12-14-tert-alkyl	**Rat - Oral - LD50** 612 mg/kg OECD 401
-	**Rat - Dermal - LD50** 251 mg/kg OECD 402
-	**Rat - Inhalation - LC50 Vapour**

SECTION 11: Toxicological information

	1.19 mg/l [4 hours] OECD 403
(Z)-octadec-9-enylamine	**Rat - Oral - LD50** 1689 mg/kg OECD 401

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)
Castrol Transmax Axle Long Life 75W-140 (Neuhof)	N/A	154274.2	N/A	257.1	N/A
Parent					
Amines, C12-14-tert-alkyl	500	300	N/A	0.5	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	**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	Result
1-Decene, homopolymer, hydrogenated	**Rabbit - Eyes - Non-irritating to the eyes.** OECD 405
Dec-1-ene, homopolymer, hydrogenated	**Rabbit - Eyes - Non-irritating to the eyes.** OECD 405
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	**Rabbit - Eyes - Non-irritating to the eyes.** OECD 405
Amines, C12-14-tert-alkyl	**Rabbit - Eyes - Visible necrosis**
(Z)-octadec-9-enylamine	**Rabbit - Eyes - Severe irritant** OECD 405

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name	Result

SECTION 11: Toxicological information

1-Decene, homopolymer, hydrogenated	**Guinea pig - skin** OECD 406 Result: Not sensitising
Dec-1-ene, homopolymer, hydrogenated	**Guinea pig - skin** OECD 406 Result: Not sensitising
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	**Guinea pig - skin** OECD 406 Result: Not sensitising
Amines, C12-14-tert-alkyl	**Guinea pig - skin** OECD 406 Result: Sensitising

Germ cell mutagenicity

Product/ingredient name	Result
1-Decene, homopolymer, 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, homopolymer, 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, homopolymer, hydrogenated Dec-1-ene, oligomers, 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, C12-14-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	**In vitro - Bacteria** OECD 471

SECTION 11: Toxicological information

Result: Negative

- **In vitro - Unspecified**
OECD 473
Result: Negative

- **In vitro - Mammal - species unspecified**
OECD 476
Result: Negative

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
(Z)-octadec-9-enylamine	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
(Z)-octadec-9-enylamine	STOT RE 2, H373

Aspiration hazard

Product/ingredient name	Result
1-Decene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	ASPIRATION HAZARD - Category 1
(Z)-octadec-9-enylamine	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.

Eye contact No known significant effects or critical hazards.

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.

SECTION 11: Toxicological information

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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
1-Decene, homopolymer, 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]
Dec-1-ene, homopolymer, 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]
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	**Acute - EL50** 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]
Amines, C12-14-tert-alkyl	**Acute - ErC50** OECD 201

SECTION 12: Ecological information

	Algae 0.44 mg/l [72 hours]
-	**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]
(Z)-octadec-9-enylamine	**Acute - ErC50** OECD 201 Algae 0.04 mg/l [96 hours]
-	**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]

Environmental hazards Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name	Result
Amines, C12-14-tert-alkyl	OECD 301D 21.8% [28 days] - Not readily
(Z)-octadec-9-enylamine	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	$LogP_{ow}$	BCF	Potential
Dec-1-ene, homopolymer, hydrogenated	>10	-	High
Dec-1-ene, oligomers, hydrogenated	>6.5	-	High
Dec-1-ene, trimers, hydrogenated	>10	-	High
tris(metilfenil) fosfat	5.93	-	High
Amines, C10-14-tert-alkyl	2.9	-	Low
(Z)-octadec-9-enylamine, C16-18-(even numbered,	4.33	-	High

SECTION 12: Ecological information

saturated and unsaturated)-alkylamines			

12.4 Mobility in soil

Soil/water partition coefficient Not available.

Mobility Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
1-Decene, homopolymer, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Dec-1-ene, homopolymer, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
tris(methylphenyl) phosphate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Amines, C12-14-tert-alkyl	No	N/A	N/A	No	N/A	N/A	N/A
(Z)-octadec-9-enylamine	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Alcohols, C12-16, ethoxylated	No	N/A	N/A	No	N/A	N/A	N/A

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

13.1 Waste treatment methods

Product

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste Yes.

Waste list

Waste code	Waste code definition
13 02 06*	synthetic engine, gear and lubricating oils

Packaging

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Waste code

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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)	-	-	-	-

SECTION 14: Transport information

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

Turkey Regulation No. 30105, KKDIK

None of the components are listed.

Substances of very high concern

None of the components are listed.

Regulation on the prevention of major industrial accidents and reduction of their effects

This product is not controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

Annex 17 - 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.

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.

National inventory

Australia inventory (AIIC)	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.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
United States inventory (TSCA 8b)	All components are active or exempted.

15.2 Chemical safety assessment This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms

ACGIH = American Conference of Industrial Hygienists
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
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
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SADT = Self-Accelerating Decomposition Temperature
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, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Full text of abbreviated H statements

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.

Full text of classifications [CLP/GHS]

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

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Indicates information that has changed from previously issued version.

Notice to reader

SECTION 16: Other information

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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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