

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

1.1 Product identifier

Product name	Castrol Transmax Manual V 75W-80
Product code	469686-DE01
SDS #	469686
Product registration number	648078
Product type	Liquid.

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

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

Use of the substance/mixture	Manual transmission fluid. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
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1.3 Details of the supplier of the safety data sheet

Supplier	Castrol Norway AS Tjuvholmen allé 3 0252 Oslo Norway
E-mail address	+47 815 58 005 MSDSadvice@bp.com

1.4 Emergency telephone number

EMERGENCY TELEPHONE NUMBER	Telefonnummer: + 47 22 59 13 00 (Giftinformasjonssentralen) Telefaxnummer: + 47 22 60 85 75 (Giftinformasjonssentralen) Carechem: +44 (0) 1235 239 670 (24/7)
Norway Poison Center	Tel: + 47 22 59 13 00 (Giftinformasjonssenter)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	Aquatic Chronic 2, H411

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

Hazard pictograms



Signal word	No signal word.
Hazard statements	H411 - Toxic 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	P391 - Collect spillage.
Storage	Not applicable.

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SECTION 2: Hazards identification

Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	Not applicable.
Supplemental label elements	Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction.

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

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
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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 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.	<input checked="" type="checkbox"/> 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture
Synthetic base stock. 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 - ≤25	Asp. Tox. 1, H304	-	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119486452-34 EC: 500-393-3 CAS: 157707-86-3	≥10 - ≤25	Asp. Tox. 1, H304	-	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≥10 - ≤25	Asp. Tox. 1, H304	-	[1]
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	REACH #: 01-2119493620-38 EC: 931-384-6 CAS: -	≤3	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg Eye Irrit. 2, H319: C ≥ 50% Skin Sens. 1, H317: C ≥ 9.39%	[1]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8 Index: 649-468-00-3	≤3	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1	≤3	Not classified.	-	[2]

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SECTION 3: Composition/information on ingredients

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS: 64742-54-7 Index: 649-467-00-8 REACH #: 01-2119473797-19 EC: 627-034-4 CAS: 1213789-63-9	≤0.3	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	ATE [Oral] = 500 mg/ [1] kg M [Acute] = 10 M [Chronic] = 10
isodecyl methacrylate	REACH #: 01-2119894925-17 EC: 249-978-2 CAS: 29964-84-9 Index: 607-134-00-4	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 1, H410	STOT SE 3, H335: C [1] ≥ 10% M [Chronic] = 1
dec-1-ene	REACH #: 01-2119457739-21 EC: 212-819-2 CAS: 872-05-9	≤0.3	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH066	M [Acute] = 1 [1] [2] M [Chronic] = 1

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of 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.

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 irritation develops.

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 symptoms occur.

Protection of first-aiders

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

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

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.

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.

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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. 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

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

Combustion products may include the following:
carbon oxides (CO, CO₂) (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. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters

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. Collect spillage.

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

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

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SECTION 7: Handling and storage

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
7.3 Specific end use(s)	
Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Distillates (petroleum), hydrotreated light paraffinic	FOR-2011-12-06-1358 (Norway) [oljetåke (mineralolje-partikler)] TWA 8 hours: 1 mg/m ³ . Form: mineral oil particles. Issued/Revised: 2/1996.
Distillates (petroleum), hydrotreated heavy paraffinic	FOR-2011-12-06-1358 (Norway) [oljedamp] TWA 8 hours: 50 mg/m ³ . Form: Vapour. Issued/Revised: 2/1996.
dec-1-ene	FOR-2011-12-06-1358 (Norway) [oljetåke (mineralolje-partikler)] TWA 8 hours: 1 mg/m ³ . Form: mineral oil particles. Issued/Revised: 2/1996. FOR-2011-12-06-1358 (Norway) [oljedamp] TWA 8 hours: 50 mg/m ³ . Form: Vapour. Issued/Revised: 2/1996. FOR-2011-12-06-1358 (Norway) [dekaner og andre høyere alifatiske hydrokarboner] TWA 8 hours: 40 ppm. Issued/Revised: 2/1996. TWA 8 hours: 275 mg/m ³ . Issued/Revised: 2/1996.

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

Recommended monitoring procedures 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.	

DNELs/DMELs

Not available.

PNECs

Not available.

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Respiratory protection

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

Eye/face protection

Safety glasses with side shields.

Skin protection

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.

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SECTION 8: Exposure controls/personal protection

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.

Refer to standards:

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Amber.
Odour	Not available.
Odour threshold	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flammability	Not available.
Lower and upper explosion limit	Not available.
Flash point	<input checked="" type="checkbox"/> Open cup: >200°C (>392°F) [Cleveland DIN EN ISO 2592]
Auto-ignition temperature	

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

Decomposition temperature	Not available.
pH	Not applicable.
Kinematic viscosity	<input checked="" type="checkbox"/> Kinematic: 40 mm ² /s (40 cSt) at 40°C Kinematic: 7.5 to 8.5 mm ² /s (7.5 to 8.5 cSt) at 100°C
Solubility	

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SECTION 9: Physical and chemical properties

Media	Result
water	Not soluble

Partition coefficient n-octanol/water (log value) Not applicable.

Vapour pressure

Ingredient name	Vapour Pressure at 20 °C			Vapour pressure at 50 °C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Decene, homopolymer, hydrogenated	<0.0041	<0.00055	ASTM E 1194-87			
Dec-1-ene, homopolymer, hydrogenated	<0.0041	<0.00055	ASTM E 1194-87			
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	<0.0041	<0.00055	ASTM E 1194-87			
Distillates (petroleum), hydrotreated light paraffinic	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			

Density and/or Relative density <1000 kg/m³ (<1 g/cm³) at 15 °C

Relative vapour density Not available.

Particle characteristics

Median particle size Not applicable.

9.2 Other information

Evaporation rate Not available.

Explosive properties Not available.

Oxidising properties Not available.

Pour point \geq -60 °C

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 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

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SECTION 11: Toxicological information

	<p>Rat - Inhalation - LD50 Dusts and mists >5.2 mg/l [4 hours] OECD 403</p>
Dec-1-ene, trimers, hydrogenated	<p>Rat - Oral - LD50 >5000 mg/kg OECD 423</p> <p>Rat - Dermal - LD50 >2000 mg/kg OECD 402</p> <p>Rat - Inhalation - LD50 Dusts and mists >5.2 mg/l [4 hours] OECD 403</p>
Dec-1-ene, trimers, hydrogenated	<p>Rat - Oral - LD50 >5000 mg/kg OECD 423</p> <p>Rat - Dermal - LD50 >2000 mg/kg OECD 402</p> <p>Rat - Inhalation - LD50 Dusts and mists >5.2 mg/l [4 hours] OECD 403</p>
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	<p>Rat - Oral - LD50 2000 mg/kg OECD 401</p>
Distillates (petroleum), hydrotreated light paraffinic	<p>Rat - Oral - LD50 >5000 mg/kg OECD 401</p> <p>Rabbit - Dermal - LD50 >5000 mg/kg OECD 402</p> <p>Rat - Inhalation - LC50 Dusts and mists >5.53 mg/l [4 hours] OECD 403</p>
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	<p>Rat - Oral - LD50 1689 mg/kg OECD 401</p>
isodecyl methacrylate	<p>Rat - Oral - LD50 >5000 mg/kg OSHA</p> <p>Rabbit - Dermal - LD50 >3000 mg/kg OSHA</p>
dec-1-ene	<p>Rat - Oral - LD50 >5000 mg/kg OECD 401</p> <p>Rabbit - Dermal - LD50 >2000 mg/kg OECD 402</p> <p>Rat - Inhalation - LD50 Vapour >20 mg/l [4 hours] OECD 403</p>

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 Manual V 75W-80 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	19904.2 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

Result

Dec-1-ene, homopolymer, 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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

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

Distillates (petroleum), hydrotreated light paraffinic

Rabbit - Skin - Non-irritant to skin.

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

Rabbit - Skin - Visible necrosis
OECD 404

isodecyl methacrylate

Rabbit - Skin - Irritant

dec-1-ene

Rabbit - Skin - Mild irritant
OECD 404

Serious eye damage/eye irritation

Product/ingredient name

Result

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 - Non-irritating to the eyes.
OECD 405

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

Rabbit - Eyes - Irritant
FHSA 16CFR1500

Distillates (petroleum), hydrotreated light paraffinic

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

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

Rabbit - Eyes - Severe irritant
OECD 405

isodecyl methacrylate

Rabbit - Eyes - Irritant

dec-1-ene

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

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Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name

Result

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: Not sensitising

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

Mouse - skin
OECD 429
Result: Sensitising

Distillates (petroleum), hydrotreated light paraffinic

Guinea pig - skin
OECD 406
Result: Not sensitising

isodecyl methacrylate

Mouse - skin
OECD 429
Result: Not sensitising

dec-1-ene

Guinea pig - skin
OECD 406
Result: Not sensitising

Germ cell mutagenicity

Product/ingredient name

Result

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, 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

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	OECD [In vitro Mammalian Chromosomal Aberration Test] <u>Result:</u> Negative
	In vivo - Mammal - species unspecified OECD [Mammalian Erythrocyte Micronucleus Test] <u>Result:</u> Negative
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	In vitro - Bacteria OECD 471 <u>Result:</u> Negative
	In vitro - Mammal - species unspecified OECD 476 <u>Result:</u> Negative
	In vitro - Unspecified - Somatic OECD 474 <u>Result:</u> Negative
Distillates (petroleum), hydrotreated light paraffinic	In vitro - Bacteria OECD [Bacterial Reverse Mutation Test] <u>Result:</u> Negative
	In vitro - Mammal - species unspecified OECD [In vitro Mammalian Chromosomal Aberration Test] <u>Result:</u> Negative
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	In vitro - Bacteria OECD 471 <u>Result:</u> Negative
	In vitro - Unspecified OECD 473 <u>Result:</u> Negative
	In vitro - Mammal - species unspecified OECD 476 <u>Result:</u> Negative
isodecyl methacrylate	In vitro - Bacteria OECD 471 <u>Result:</u> Negative
	In vitro - Unspecified OECD 473 <u>Result:</u> Negative
	In vitro - Mammal - species unspecified Equivalent to OECD 476 <u>Result:</u> Negative
dec-1-ene	In vitro - Bacteria OECD 471 <u>Result:</u> Negative
	In vitro - Mammalian-Animal OECD 473 <u>Result:</u> Negative
	In vivo - Mammalian-Animal OECD 474 <u>Result:</u> Negative

Carcinogenicity

Not available.

Reproductive toxicity

Product/ingredient name

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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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

Rat - Oral

OECD 421

Maternal toxicity: Positive

Fertility effects: Negative

Developmental: Negative

Distillates (petroleum), hydrotreated light paraffinic

Rat - Oral

OECD 421

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

isodecyl methacrylate

Rat - Oral

OECD 422

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

dec-1-ene

Rat - Oral

OECD 422

Maternal toxicity: Negative

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
isodecyl methacrylate

Result

STOT SE 3, H335 (Respiratory tract irritation)

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

Result

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Dec-1-ene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, trimers, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, trimers, hydrogenated	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	ASPIRATION HAZARD - Category 1
dec-1-ene	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

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

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	Acute - EL50 Equivalent to OECD 201 Algae >1000 mg/l [72 hours]
	Acute - EL50 OECD 202 Daphnia >1000 mg/l [48 hours]
	Chronic - NOELR

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	<p>OECD 211 Daphnia 125 mg/l [21 days]</p> <p>Acute - LL50 OECD 203 Fish >1000 mg/l [96 hours]</p>
Dec-1-ene, trimers, hydrogenated	<p>Acute - EL50 Equivalent to OECD 201 Algae >1000 mg/l [72 hours]</p> <p>Acute - EL50 OECD 202 Daphnia >1000 mg/l [48 hours]</p> <p>Chronic - NOELR OECD 211 Daphnia 125 mg/l [21 days]</p> <p>Acute - LL50 OECD 203 Fish >1000 mg/l [96 hours]</p>
Dec-1-ene, trimers, hydrogenated	<p>Acute - EL50 OECD 201 Algae >1000 mg/l [72 hours]</p> <p>Acute - EL50 OECD 202 Daphnia >1000 mg/l [48 hours]</p> <p>Chronic - NOELR OECD 211 Daphnia 125 mg/l [21 days]</p> <p>Acute - LL50 OECD 203 Fish >1000 mg/l [96 hours]</p>
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	<p>Acute - ErC50 OECD 201 Algae 6.4 mg/l [96 hours]</p> <p>Chronic - NOEC OECD 201 Algae 1.7 mg/l [96 hours]</p> <p>Acute - EC50 OECD 202 Daphnia 91.4 mg/l [48 hours]</p> <p>Chronic - EC50 OECD 211 Daphnia 0.66 mg/l [21 days]</p> <p>Chronic - NOEC OECD 211 Daphnia</p>

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	0.12 mg/l [21 days]
	Acute - LC50 OECD 203 Fish 24 mg/l [96 hours]
Distillates (petroleum), hydrotreated light paraffinic	Acute - EL50 OECD 201 Algae >100 mg/l [72 hours]
	Acute - EL50 OECD 202 Daphnia >10000 mg/l [48 hours]
	Acute - LL50 OECD 203 Fish >100 mg/l [96 hours]
	Chronic - NOEL OECD 201 Algae ≥100 mg/l [72 hours]
	Chronic - NOEL OECD 211 Daphnia 10 mg/l [21 days]
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	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]
isodecyl methacrylate	Acute - ErC50 Algae >0.0169 mg/l [72 hours]
	Chronic - NOEC Algae 0.012 mg/l [72 hours]
	Chronic - NOEC Daphnia 0.0542 mg/l [21 days]
	Acute - LC50 DIN 38412 Fish 100 mg/l [48 hours]
dec-1-ene	Acute - ErC50 OECD 201 Algae

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1 to 1.8 mg/l [72 hours]

Acute - EC50

OECD 202
Daphnia
0.56 to 1 mg/l [48 hours]

Chronic - NOEC

OECD 211
Daphnia
19.4 mg/l [21 days]

Acute - LC50

Fish
>1.5 mg/l [96 hours]

Environmental hazards

Toxic to aquatic life with long lasting effects.
Based on data available for this or related materials.

12.2 Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name

Result

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	OECD 301B 7.4% [28 days] - Not readily
Distillates (petroleum), hydrotreated light paraffinic	OECD 301F 31% [28 days] - Not readily
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	OECD 301B 66% [28 days] - Readily
isodecyl methacrylate	OECD 310 62% [28 days] - Not readily
dec-1-ene	OECD 301F >80% [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, trimers, hydrogenated	>6.5	-	High
Dec-1-ene, trimers, hydrogenated	>10	-	High
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	4.33	-	High
isodecyl methacrylate	6.45 to 7.44	37	Low
dec-1-ene	5.12	-	High

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	3.43	2699.8
dec-1-ene	2.4	251.256

Results of PMT and vPvM assessment

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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
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	No	No	No	No	No	No	No
Distillates (petroleum), hydrotreated light paraffinic	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
isodecyl methacrylate	No	No	No	No	No	No	No
dec-1-ene	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	vB
Dec-1-ene, homopolymer, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Dec-1-ene, trimers, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Dec-1-ene, trimers, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), hydrotreated light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	N/A	N/A	N/A	Yes	N/A	N/A	N/A
isodecyl methacrylate	No	N/A	No	No	No	N/A	No
dec-1-ene	No	N/A	N/A	No	N/A	N/A	N/A

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
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
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	No	No	No	No	No	No	No
Distillates (petroleum), hydrotreated light paraffinic	No	No	No	No	No	No	No
(Z)-octadec-9-enylamine, C16-18-(even numbered,	No	No	No	No	No	No	No

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saturated and unsaturated)-alkylamines								
isodecyl methacrylate	No							
dec-1-ene	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

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

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

13.1 Waste treatment methods

Product

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

Hazardous waste Yes.

European waste catalogue (EWC)

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

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

Packaging

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

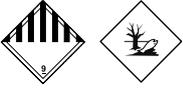
Special precautions

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

References

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. ((Z)-octadec-9-enylamine)	Environmentally hazardous substance, liquid, n.o.s. ((Z)-octadec-9-enylamine)	Environmentally hazardous substance, liquid, n.o.s.. Marine pollutant ((Z)-octadec-9-enylamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((Z)-octadec-9-enylamine)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

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Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Hazard identification number 90 Tunnel code -	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Emergency schedules F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
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14.6 Special precautions for user Not available.

ADR/RID Classification code: M6

ADN Classification code: M6

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 Manual V 75W-80	95-100	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 (AIC) All components are listed or exempted.

Canada inventory All components are listed or exempted.

China inventory (IECSC) All components are listed or exempted.

Japan inventory (CSCL) All components are listed or exempted.

Korea inventory (KECI) All components are listed or exempted.

Philippines inventory (PICCS) At least one component is not listed.

Taiwan Chemical Substances Inventory (TCSI) All components are listed or exempted.

Explosive precursors Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

EU - Water framework directive - Priority substances

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None of the components are listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

E2

National regulations

Regulations relating to the declaration of chemicals to the Product Register (Declaration Regulations), FOR-2015-05-19-541

Product registration number 648078

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

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SECTION 16: Other information

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

Classification	Justification
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Full text of classifications [CLP/GHS]

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.
EUH066	Repeated exposure may cause skin dryness or cracking.
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
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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