SAFETY DATA SHEET



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

1.1 Product identifier

Product name Castrol Transmax DUAL

Product code 466523-DE01 SDS# 466523 **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/ Automatic transmission fluid

For specific application advice see appropriate Technical Data Sheet or consult our company mixture

representative.

1.3 Details of the supplier of the safety data sheet

Supplier Lubricants UK Limited,

> Chertsey Road, Sunbury On Thames,

Middlesex, TW16 7BP

+44 (0)345 600 8125 MSDSadvice@bp.com

1.4 Emergency telephone number

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

TELEPHONE NUMBER

E-mail address

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

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

Aquatic Chronic 3, H412

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

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

2.2 Label elements

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.

Hazardous ingredients Not applicable.

Supplemental label

Product name Castrol Transmax DUAL

elements

Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction.

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SECTION 2: Hazards identification

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.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger

Not applicable.

2.3 Other hazards

Results of PBT and vPvB assessment

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

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

Other hazards which do not result in classification

Defatting to the skin.

Product does not contain a substance above legal limits including the list established in accordance with REACH article 59(1) for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in EU 2017/2100 or EU 2018/605.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture

Synthetic base stock. Proprietary performance additives.

Product/ingredient name	Identifiers	entifiers % Classification		Specific Conc. Limits, M-factors and ATEs	Type
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119486452-34 EC: 500-393-3 CAS: 157707-86-3	≥25 - ≤50	Asp. Tox. 1, H304	-	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≥25 - ≤50	Asp. Tox. 1, H304	-	[1]
Isooctadecanoic acid, reaction products with tetraethylenepentamine	REACH #: 01-2119960832-33 EC: 701-204-9 CAS: -	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
1-(tert-dodecylthio)propan-2-ol	EC: 266-582-5 CAS: 67124-09-8	≤1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Skin Sens. 1, H317: C ≥ 14.2% M [Acute] = 1 M [Chronic] = 1	[1]
2-tetradecyloxirane, reaction products with boric acid	REACH #: 01-2119976364-28 EC: 701-392-2 CAS: -	<1	Skin Sens. 1B, H317	- ` '	[1]

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

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

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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. In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by Ingestion

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 Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion No known significant effects or critical hazards.

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

Eve contact No known significant effects or critical hazards.

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.

Eve 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

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing

media

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

Combustion products may include the following:

products

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

nitrogen oxides (NO, NO₂ etc.)

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 harmful 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 firefighters (including helmets, protective boots and gloves) conforming to European standard EN

469 will provide a basic level of protection for chemical incidents.

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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

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. 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.

Prolonged exposure to elevated temperature.

7.3 Specific end use(s)

Not suitable

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

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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

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.

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.

Derived No Effect Level

No DNELs/DMELs available.

Predicted No Effect Concentration

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Individual protection measures

Hygiene measures

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

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

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

Eye/face protection

Skin protection

Hand protection

Safety glasses with side shields.

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:

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SECTION 8: Exposure controls/personal protection

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.

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.

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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 Green Odour Not available. **Odour threshold** Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. **Flammability** Lower and upper explosion Not available.

limit

Flash point **Auto-ignition temperature**

Open cup: >200°C (>392°F) [Cleveland]

Ingredient name

Dec-1-ene, homopolymer, hydrogenated

343 to 369 649.4 to 696.2 ASTM D 2159 Dec-1-ene, homopolymer,

343 to 369

hydrogenated Dec-1-ene, oligomers,

hydrogenated

Decomposition temperature

pН

Not available. Not applicable.

Kinematic viscosity Kinematic: 35.5 mm²/s (35.5 cSt) at 40°C

Kinematic: 7 to 7.4 mm²/s (7 to 7.4 cSt) at 100°C

Solubility

Media	Result
water	Not soluble

Method

649.4 to 696.2 ASTM D 2159

Partition coefficient n-octanol/

water (log value)

Not applicable.

Vapour pressure >0.01 kPa

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

Not available. **Evaporation rate Explosive properties** Not available. **Oxidising properties** Not available. -72 °C **Pour point**

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 Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 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 Under normal conditions of storage and use, hazardous decomposition products should not be

decomposition products produced.

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SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result / Route		thority / nber	Species	Dose	Exposure	Remarks
Dec-1-ene, homopolymer, hydrogenated Dec- 1-ene, oligomers, hydrogenated	LD50 Dermal	OECD	402	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	OECD	420	Rat	>2000 mg/kg	-	-
Isooctadecanoic acid, reaction products with tetraethylenepentamine	LD50 Dermal	OECD	402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>5000 mg/kg	-	-
C14-18 alpha-olefin epoxide, reaction products with boric acid	LD50 Dermal	OECD	434	Rat	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>5000 mg/kg	-	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name		ority / Test mber	Species	Route / Result	Test concentration	Remarks
Dec-1-ene, homopolymer, hydrogenated Dec- 1-ene, oligomers, hydrogenated	OECD	405	Rabbit	Eyes - Non- irritating to the eyes.	-	Based on studies with similar substances.
	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	-
Isooctadecanoic acid, reaction products with tetraethylenepentamine	OECD	405	Rabbit	Eyes - Irritant	-	-
	OECD	404	Rabbit	Skin - Irritant	-	-
C14-18 alpha-olefin epoxide, reaction products with boric acid	OECD	405	Rabbit	Eyes - Non- irritating to the eyes.	-	-
	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	-

<u>Sensitiser</u>

Product/ingredient name	Route		ority / Test nber	Species	Result	Remarks
Dec-1-ene, homopolymer, hydrogenated Dec- 1-ene, oligomers, hydrogenated	skin	OECD	406	Guinea pig	Not sensitising	-
Isooctadecanoic acid, reaction products with tetraethylenepentamine	skin	OECD	406	Guinea pig	Not sensitising	-
C14-18 alpha-olefin epoxide, reaction products with boric acid	skin	OECD	406	Guinea pig	Sensitising	-

GERM CELL MUTAGENICITY

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SECTION 11: Toxicological information

Product/ingredient	Test authority /	Cell		Туре	Result	Remarks
name	Test number					
Dec-1-ene, homopolymer, hydrogenated Dec- 1-ene, oligomers, hydrogenated	OECD 471 - Bacterial Reverse Mutation Test		Experiment: In vitro	Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 473 In vitro Mammalian Chromosomal Aberration Test		Experiment: In vitro	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 474 - Mammalian Erythrocyte Micronucleus Test		Experiment: In vivo	Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
Isooctadecanoic acid, reaction products with tetraethylenepentamine	OECD 471 - Bacterial Reverse Mutation Test		Experiment: In vitro	Subject: Bacteria	Negative	-
	Equivalent to - OECD 473 In vitro Mammalian Chromosomal Aberration Test		Experiment: In vitro	Subject: Mammal - species unspecified	Negative	-
	OECD 476 In - vitro Mammalian Cell Gene Mutation Test		Experiment: In vitro	Subject: Mammal - species unspecified	Negative	-
C14-18 alpha-olefin epoxide, reaction products with boric acid	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 473 -		Experiment: In vitro	Subject: Mammal - species unspecified	Negative	-
	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-

Carcinogenicity

Not available.

Reproductive toxicity

Product/ ingredient name	Test au Test n	•	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
Dec-1-ene, homopolymer, hydrogenated Dec- 1-ene, oligomers, hydrogenated	OECD	415	Rat	Oral	-	Negative	Negative	Negative	-
Isooctadecanoic acid, reaction products with tetraethylenepentamine	OECD	421	Rat	Oral	-	Negative	Negative	Negative	NOAEL >1000mg/ kg/day
C14-18 alpha-olefin epoxide, reaction products with boric acid	OECD	422	Rat	Oral	-	Negative	Negative	Negative	-

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SECTION 11: Toxicological information

Aspiration hazard

Product/ingredient name	Result
Dec-1-ene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	ASPIRATION HAZARD - Category 1

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Conclusion/Summary Not available.

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

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

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

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Froduct does not contain a substance above legal limits including the list established in accordance with REACH article 59(1) for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in EU 2017/2100 or EU 2018/605.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name		uthority / number	Species	Type / Result	Exposure	Effects	Remarks
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD	201	Algae	Acute EL50 >1000 mg/l	72 hours	-	Based on studies with similar substances.
	OECD	202	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	Based on studies with
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SECTION 12: Ecological information similar substances. **OECD** 203 Fish Acute LL50 >1000 mg/l 96 hours **OECD** 211 Daphnia Chronic NOELR 125 mg/l 21 days Based on studies with similar substances. Isooctadecanoic acid. **OECD** 201 Algae Acute EC50 94 mg/l 96 hours reaction products with tetraethylenepentamine **OECD** 202 Daphnia Acute EC50 >1000 mg/l 48 hours **OECD** 203 Fish Acute LC50 >1000 mg/l 96 hours **OECD** 201 Algae Chronic NOEC 23 mg/l 96 hours **OECD** 211 Daphnia Chronic NOEC >32 mg/l 21 days C14-18 alpha-olefin **OECD** 202 Daphnia Acute EL50 >100 mg/l 48 hours epoxide, reaction products with boric acid OECD 201 Algae Acute ErL50 >100 mg/l 96 hours **OECD** 203 Fish Acute LL50 >100 mg/l 96 hours **OECD** 201 Chronic NOELR 100 mg/l 96 hours Algae **OECD** 201 Daphnia Chronic NOEL 10 mg/l 21 days

Environmental hazards

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name	Test authority / Test number	Result - Exposure	Remarks
Isooctadecanoic acid, reaction products with tetraethylenepentamine	OECD 301B	21.8 % - Not readily - 28 days	-
C14-18 alpha-olefin epoxide, reaction products with boric acid	OECD 301B	26.7 % - Not readily - 28 days	-

12.3 Bioaccumulative potential

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

Product/ingredient name	LogPow	BCF	Potential
Dec-1-ene, trimers, hydrogenated	>6.5	-	High
Dec-1-ene, trimers, hydrogenated	>10	-	High
2-tetradecyloxirane, reaction products with boric acid	9.4	-	High

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Mobility Spillages may penetrate the soil causing ground water contamination.

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SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting

properties

Froduct does not contain a substance above legal limits including the list established in accordance with REACH article 59(1) for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in EU 2017/2100 or EU 2018/605.

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	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.

user

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SECTION 14: Transport information

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]
BOT 342 A (Neuhof) Parent	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 (AIIC)

China inventory (IECSC)

Japan inventory (CSCL)

Canada inventory

All components are listed or exempted. All components are listed or exempted. All components are listed or exempted. 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

All components are listed or exempted.

Explosive precursors Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

(TCSI)

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

Not listed.

Persistent Organic Pollutants

Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment

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

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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 /

Justification

RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN

01-2119474889-13

Classification

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

Classification		Justinication	
Aquatic Chronic 3, H412		Calculation method	
Full text of abbreviated H	H225	Highly flammable liquid and vapour.	
statements	H226	Flammable liquid and vapour.	
	H290	May be corrosive to metals.	
	H302	Harmful if swallowed.	
	H304	May be fatal if swallowed and enters airways.	
	H312	Harmful in contact with skin.	
	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.	
	H331	Toxic if inhaled.	
	H332	Harmful if inhaled.	
	H335	May cause respiratory irritation.	
	H336	May cause drowsiness or dizziness.	

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SECTION 16: Other information

H340 May cause genetic defects. H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure. 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. H412 Harmful to aquatic life with long lasting effects. **EUH066** Repeated exposure may cause skin dryness or cracking. **Full text of classifications** Acute Tox. 3 **ACUTE TOXICITY - Category 3** ACUTE TOXICITY - Category 4 Acute Tox. 4 [CLP/GHS] Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 Asp. Tox. 1 Carc. 1A CARCINOGENICITY - Category 1A SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Dam. 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Met. Corr. 1 CORROSIVE TO METALS - Category 1 Muta. 1B GERM CELL MUTAGENICITY - Category 1B

> Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1B SKIN SENSITISATION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY - REPEATED STOT RE 1

EXPOSURE - Category 1

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

EXPOSURE - Category 2

STOT SF 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

SKIN CORROSION/IRRITATION - Category 1B

Category 3

History

Date of issue/ Date of 16/12/2024.

revision

Date of previous issue 01/07/2024. Prepared by **Product Stewardship**

✓ Indicates information that has changed from previously issued version.

Skin Corr. 1B

Notice to reader

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition Mixture Code 466523-DE01

Product name Castrol Transmax DUAL

Section 1: Title

Short title of the exposure

List of use descriptors

scenario

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

Identified use name: General use of lubricants and greases in vehicles or

machinery-Industrial

Process Category: PROC01, PROC08b, PROC09, PROC02

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07

Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1

Processes and activities covered by the exposure

scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

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

Contributing scenarios: Operational conditions and risk management measures

Section 2.2: Control of environmental exposure

Amounts used:

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

per year:

Frequency and duration of use:

Emission days 300

Environment factors not influenced by risk

management:

10 Local freshwater dilution factor Local marine water dilution factor 100

Other conditions affecting environmental exposure:

Negligible wastewater emissions as process operates without water

contact.

Release fraction to air (after typical onsite

RMMs)

5.00E-05

Release fraction to soil from process (after

typical onsite RMMs)

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process process level (source) to prevent release: release estimates used.

Castrol Transmax DUAL

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

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Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Organisational measures to prevent/limit release from site:

Conditions and measures related to sewage treatment plant:

reatment plant:
Estimated substance removal from

wastewater via on-site sewage treatment
Assumed domestic sewage treatment plant

flow rate (m3/d) Maximum allowable site tonnage (M_{Safe})

based on release following total wastewater treatment removal as product:

Conditions and measures related to external

treatment of waste for disposal:
Conditions and measures related to external

Conditions and measures related to externa recovery of waste:

Prevent discharge of undissolved substance to or recover from onsite wastewater.

User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

Not available.

2.00E+3

Not available.

External treatment and disposal of waste should comply with applicable local and/or national regulations.

External recovery and recycling of waste should comply with applicable local and/or national regulations.

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): Used ECETOC TRA model (May 2010 release).

Exposure estimation and reference to its source - Workers

Exposure assessment (human): No exposure scenario is presented because the product is not

classified for Human Health

Section 4: Guidance to check compliance with the exposure scenario

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



Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition Mixture

Code 466523-DE01

Product name Castrol Transmax DUAL

Section 1: Title

Short title of the exposure

List of use descriptors

scenario

scenario

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

Identified use name: General use of lubricants and greases in vehicles or

machinery-Professional

Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

Specific Environmental Release Category: ATIEL-ATC SPERC 9.Bp.v1

Processes and activities covered by the exposure

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

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

Contributing scenarios: Operational conditions and risk management measures

Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance 5.39 Tonnes/year

per year:

Frequency and duration of use:

Emission days 365

Environment factors not influenced by risk

management:

Local freshwater dilution factor 10
Local marine water dilution factor 100

Other conditions affecting environmental

exposure:

Negligible wastewater emissions as process operates without water

contact.

Release fraction to air (after typical onsite

RMMs)

1.00E-04

Release fraction to soil from process (after

typical onsite RMMs)

1E-03

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process

process level (source) to prevent release: release estimates used.

Castrol Transmax DUAL

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

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Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Organisational measures to prevent/limit release from site:

Conditions and measures related to sewage treatment plant:

Estimated substance removal from

wastewater via on-site sewage treatment
Assumed domestic sewage treatment plant

flow rate (m3/d)
Maximum allowable site tonnage (M_{Safe})
based on release following total wastewater

treatment removal as product:

Conditions and measures related to external treatment of waste for disposal:

Conditions and measures related to external recovery of waste:

Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

No data available yet

2.00E+3

No data available yet

External treatment and disposal of waste should comply with applicable local and/or national regulations.

External recovery and recycling of waste should comply with applicable local and/or national regulations.

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): Used ECETOC TRA model (May 2010 release).

Exposure estimation and reference to its source - Workers

Exposure assessment (human): No exposure scenario is presented because the product is not

classified for Human Health

Section 4: Guidance to check compliance with the exposure scenario

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

Castrol Transmax DUAL