

Section 1. Identification

Product name Castrol Transmax Manual FE 75W
SDS # 469681
Code 469681-DE01

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

Product use Manual transmission fluid
For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Manual transmission fluid
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Supplier Castrol BP Petco
9th Floor – Times Square building
57-69F Dong Khoi Street
District 1, Ho Chi Minh City
Vietnam
Tel: 84-28-38219596 / 38219153
Fax: 84-28-38219603 / 38219152
EMERGENCY SPILL INFORMATION: Carechem: +65 3158 1074 (24/7)

Section 2. Hazards identification

Classification of the substance or mixture REPRODUCTIVE TOXICITY - Category 2

GHS label elements

Hazard pictograms



Signal word Warning
Hazard statements H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements

General P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing and eye or face protection.

Response P308 + P313 - IF exposed or concerned: Get medical attention.

Storage P405 - Store locked up.

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

Routes of entry

☑ Dermal contact. Eye contact. Inhalation. Ingestion.

Other hazards which do not result in classification

Defatting to the skin.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

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

Ingredient name	CAS number	%
☑ Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	≥50 - ≤75
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	≥10 - ≤25
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	68037-01-4	≥10 - ≤25
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≤3
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	≤3
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	≤3
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	<1

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

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

Section 4. First aid measures

Description of necessary 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.

Inhalation

If inhaled, remove to fresh air. Get medical attention.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention. If skin irritation or rash occurs: Get medical advice/attention.

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.

Most important symptoms/effects, acute and delayed

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

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

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

Specific treatments

No specific treatment.

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.

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 2/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
---	---

Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

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

For emergency responders Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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 spilled product. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Product name Castrol Transmax Manual FE 75W	Product code 469681-DE01	Page: 3/17
Date of issue 07/03/2024.	Format Vietnam	Language ENGLISH
Version 5.03	(Vietnam)	(ENGLISH)

Section 7. Handling and storage

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

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

Not suitable

Prolonged exposure to elevated temperature

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Ministry of Health (Viet Nam). [mineral oil] TWA: 5 mg/m ³ 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	Ministry of Health (Viet Nam). [mineral oil] TWA: 5 mg/m ³ 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Ministry of Health (Viet Nam). [mineral oil] TWA: 5 mg/m ³ 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), solvent-refined heavy paraffinic	Ministry of Health (Viet Nam). [mineral oil] TWA: 5 mg/m ³ 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued/Revised: 10/2002 Form: Mist

Biological exposure indices

No exposure indices known.

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 4/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 8. Exposure controls/personal protection

Recommended monitoring procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

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

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

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

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

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.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses with side shields.

Skin protection

Hand protection

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

Skin protection

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.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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.

Section 9. Physical and chemical properties

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

Appearance

Physical state	Liquid.
Colour	Brown.
Odour	Not available.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Open cup: >220°C (>428°F) [Cleveland ASTM D 92]
Evaporation rate	Not available.
Flammability	Not available.
Lower and upper explosion limit/flammability limit	Not available.
Vapour pressure	

Ingredient name	Vapour Pressure at 20 °C			Vapour pressure at 50 °C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<0.07501	<0.01	ASTM D 5191			
Dec-1-ene, homopolymer, hydrogenated	<0.0041	<0.00055	ASTM E 1194-87			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), solvent-refined heavy paraffinic	<0.07501	<0.01	ASTM D 5191			

Relative vapour density	Not available.
Density	<1000 kg/m ³ (<1 g/cm ³) at 15°C
Relative density	Not available.
Solubility(ies)	

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water	Not applicable.
--	-----------------

Auto-ignition temperature

Ingredient name	°C	°F	Method
Dec-1-ene, homopolymer, hydrogenated	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.
---------------------------	----------------

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 6/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 9. Physical and chemical properties

Viscosity Kinematic: 32.2 mm²/s (32.2 cSt) at 40°C
Kinematic: 6.3 to 6.8 mm²/s (6.3 to 6.8 cSt) at 100°C (ASTM D 445)

Particle characteristics

Median particle size Not applicable.

Section 10. Stability and reactivity

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

Chemical stability The product is stable.

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.

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

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

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ ingredient name	Result/Route	Test detail	Species	Dose	Exposure	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	OECD 403	Rat	>5 mg/l	4 hours	Based on studies with similar substances
	LD50 Dermal	OECD 402	Rat	>5000 mg/kg	-	Based on studies with similar substances
	LD50 Oral	OECD 423	Rat	>5000 mg/kg	-	Based on studies with similar substances
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	-	-
Distillates (petroleum), hydrotreated heavy	LD50 Dermal	OECD 402	Rabbit	>5000 mg/kg	-	Based on studies with

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 7/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 11. Toxicological information

paraffinic						similar substances
	LD50 Oral	OECD 401	Rat	>5000 mg/kg	-	Based on studies with similar substances
	LD50 Inhalation Dusts and mists	OECD 403	Rat	>5 mg/l	4 hours	Based on studies with similar substances
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	OECD 403	Rat	>5 mg/l	4 hours	Based on studies with similar substances
	LD50 Dermal	OECD 402	Rat	>2000 mg/kg	-	Based on studies with similar substances
	LD50 Oral	OECD 401	Rat	>5000 mg/kg	-	Based on studies with similar substances
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	LD50 Dermal	-	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD 401	Rat	>2000 mg/kg	-	-

Conclusion/Summary Not available.

Irritation/Corrosion

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

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 8/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 11. Toxicological information

Distillates (petroleum), hydrotreated heavy paraffinic	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on studies with similar substances.
	OECD	404	Rabbit	Skin - Mild irritant	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on studies with similar substances.
	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	-
	OECD	404	Rabbit	Skin - Non-irritant to skin.	-	-

Sensitisation

Product/ingredient name	Route of exposure	Test detail		Species	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	skin	OECD	406	Not sensitising	Guinea pig	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	skin	OECD	406	Not sensitising	Guinea pig	-
Distillates (petroleum), hydrotreated heavy paraffinic	skin	OECD	406	Not sensitising	Guinea pig	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	skin	OECD	406	Not sensitising	Guinea pig	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	skin	OECD	406	Not sensitising	Guinea pig	-

Mutagenicity

Product name Castrol Transmax Manual FE 75W	Product code 469681-DE01	Page: 9/17
Date of issue 07/03/2024.	Format Vietnam	Language ENGLISH
Version 5.03	(Vietnam)	(ENGLISH)

Section 11. Toxicological information

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

Section 11. Toxicological information

	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Bacteria		
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Unspecified		
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative	-
		Subject: Bacteria		
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	-
		Subject: Mammal - species unspecified		
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative	-
		Subject: Mammal - species unspecified		

Conclusion/Summary

Not available.

Reproductive toxicity

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 11/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 11. Toxicological information

Product/ingredient name	Test detail	Species	Exposure	Developmental toxicity	Maternal toxicity	Fertility	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 421	Rat	Oral -	Negative	Negative	Negative	Based on studies with similar substances
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD 415	Rat	Oral -	Negative	Negative	Negative	-
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 421	Rat	Oral -	Negative	Negative	Negative	-

Conclusion/Summary Not available.

Aspiration hazard

Name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ASPIRATION HAZARD - Category 1
Dec-1-ene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

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

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Inhalation

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

Skin contact

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

Ingestion

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

No specific data.

Inhalation

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

Skin contact

Adverse symptoms may include the following:
irritation
dryness
cracking
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion

Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

Short term exposure

Product name Castrol Transmax Manual FE 75W	Product code 469681-DE01	Page: 12/17
Date of issue 07/03/2024.	Format Vietnam	Language ENGLISH
Version 5.03	(Vietnam)	(ENGLISH)

Section 11. Toxicological information

Potential immediate effects	Not available.
Potential delayed effects	Not available.
<u>Long term exposure</u>	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
<u>Potential chronic health effects</u>	
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	Suspected of damaging the unborn child.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Species	Result	Exposure	Effects	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Daphnia	Acute EL50 >10000 mg/l	48 hours	-	Based on studies with similar substances.
	Fish	Acute LL50 >100 mg/l	96 hours	-	Based on studies with similar substances.
	Algae	Acute NOEL ≥100 mg/l	72 hours	-	-
	Daphnia	Chronic NOEL ≥1000 mg/l	21 days	-	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	Algae	Acute EL50 >1000 mg/l	72 hours	-	Based on studies with similar substances.
	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	Based on studies with similar substances.
	Fish	Acute LL50	96 hours	-	-

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 13/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 12. Ecological information

		>1000 mg/l				
	Daphnia	Chronic NOELR 125 mg/l	21 days	-		Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	Daphnia	Acute EL50 >10000 mg/l	48 hours	-		-
	Fish	Acute LL50 >100 mg/l	96 hours	-		-
	Algae	Chronic NOEL ≥100 mg/l	72 hours	-		Based on studies with similar substances.
	Daphnia	Chronic NOEL 10 mg/l	21 days	-		Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Daphnia	Acute EL50 >1000 mg/l	48 hours	-		Based on studies with similar substances.
	Algae	Acute ErL50 100 mg/l	72 hours	-		Based on studies with similar substances.
	Fish	Acute LL50 >100 mg/l	96 hours	-		Based on studies with similar substances.
	Algae	Chronic NOELR 100 mg/l	72 hours	-		Based on studies with similar substances.
	Daphnia	Chronic NOELR 10 to 1000 mg/l	21 days	-		Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	Algae	Acute EC50 >100 mg/l	72 hours	-		-
	Daphnia	Acute EC50 >100 mg/l	48 hours	-		-
	Fish	Acute LC50 >100 mg/l	96 hours	-		-
	Algae	Chronic NOEC >100 mg/l	72 hours	-		-
	Daphnia	Chronic NOEC	21 days	-		-

Section 12. Ecological information

	0.026 mg/l			
Fish	Chronic NOEC 0.0044 mg/l	87 days	-	-

Conclusion/Summary Not available.

Environmental effects This material is harmful to aquatic life with long lasting effects.

Persistence and degradability

Partially biodegradable.

Product/ingredient name	Test	Result	Dose	Inoculum
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F	31 % - Inherent - 28 days	-	-
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	-
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 301D	0 % - Not readily - 28 days	-	-

Conclusion/Summary Not available.

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	>6.5	-	High
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	>10	-	High
Distillates (petroleum), solvent-refined heavy paraffinic	3.9 to 6	-	High
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	4.8 to 8.8	-	High

Mobility in soil

Soil/water partition coefficient (K_{oc}) Not available.

Mobility Spillages may penetrate the soil causing ground water contamination.

Other adverse effects No known significant effects or critical hazards.

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

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	IMDG	IATA
UN number	Not regulated.	Not regulated.
UN proper shipping name	-	-
Transport hazard class(es)	-	-
Packing group	-	-
Environmental hazards	No.	No.
Additional information	-	-

Special precautions for user Not available.

Transport in bulk according to IMO instruments Not available.

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its ingredients).

Toxic classification (TCVN 3164-79)

Not classified as hazardous.

International lists

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.

REACH Status

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

Japan inventory (CSCL)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

All components are listed or exempted.

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 16/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)

Section 15. Regulatory information

Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

United States inventory (TSCA 8b)

All components are active or exempted.

Section 16. Other information

History

Date of issue/ Date of revision	03 July 2024
Date of previous issue	4/26/2024
Prepared by	Product Stewardship
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor 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) UN = United Nations Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

✔ Indicates information that has changed from previously issued version.

Notice to reader

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

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

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Product name Castrol Transmax Manual FE 75W

Product code 469681-DE01

Page: 17/17

Date of issue 07/03/2024.

Format Vietnam

Language ENGLISH

Version 5.03

(Vietnam)

(ENGLISH)