

SAFETY DATA SHEET



Castrol Transmax Manual FE 75W

Section 1. Identification

GHS product identifier Castrol Transmax Manual FE 75W
Product code 469681-DE01
SDS no. 469681
Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture 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.
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EMERGENCY TELEPHONE NUMBER

Section 2. Hazards identification

Classification of the substance or mixture AQUATIC TOXICITY (ACUTE) - Category 3
AQUATIC TOXICITY (CHRONIC) - Category 3
GHS label elements
Signal word No signal word.
Hazard statements H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.
P273 - Avoid release to the environment.
Prevention
Response Not applicable.
Storage Not applicable.
Disposal P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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.

Chinese name	% (w/w)	CAS number	Type
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≥50 - ≤75	72623-87-1	[1] [2]
1-Decene, homopolymer, hydrogenated	≥10 - ≤25	68037-01-4	[1]
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	≥10 - ≤25	68037-01-4	[1]
Distillates (petroleum), hydrotreated heavy paraffinic	≤5	64742-54-7	[2]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	64742-65-0	[1] [2]

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Section 3. Composition/information on ingredients

reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	<1	192268-65-8	[1]
zinc isodecyl phosphorodithioate	≤0.3	25103-54-2	[1]
2,6-di-tert-butylphenol	≤0.3	128-39-2	[1]
物品名稱	% (w/w)	化學文摘社登記號碼(CAS No.)	類型
潤滑油 (石油), C20-50, 氫化中性油基	≥50 - ≤75	72623-87-1	[1] [2]
1-癸烯, 同元聚合物, 氫化	≥10 - ≤25	68037-01-4	[1]
1-癸烯, 同元聚合物, 氫化 1-癸烯, 低聚合物, 氫化	≥10 - ≤25	68037-01-4	[1]
氫化處理的重質蠟族石油餾分	≤5	64742-54-7	[2]
溶劑脫蠟重質蠟族石油餾分	≤3	64742-65-0	[1] [2]
以下物質的反應量: 三苯硫磷和叔丁基苯衍生物	<1	192268-65-8	[1]
zinc isodecyl phosphorodithioate	≤0.3	25103-54-2	[1]
2,6-二-三-丁苯酚	≤0.3	128-39-2	[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.

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

Description of necessary first aid measures

Inhalation

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

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects persist or are severe.

Skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

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

Specific treatments

No specific treatment.

Notes to physician

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

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing media

Do not use water jet.

Specific hazards arising from the chemical

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

Section 5. Firefighting measures

Hazardous thermal decomposition products	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	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
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.
Methods and material for containment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilt material and runoff with soil and surface waterways.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. 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. 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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

TW Ministry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan). [Oil mist]

STEL: 10 mg/m³ 15 minutes. Issued/

Revised: 1/2005 Form: Mist

TWA: 5 mg/m³ 8 hours. Issued/Revised: 1/2005 Form: Mist

Distillates (petroleum), hydrotreated heavy paraffinic

TW Ministry of Labor, labor permissible workplace exposure standards, allowable

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Section 8. Exposure controls/personal protection

Distillates (petroleum), solvent-dewaxed heavy paraffinic

concentration (Taiwan). [Oil mist]

STEL: 10 mg/m³ 15 minutes. Issued/

Revised: 1/2005 Form: Mist

TWA: 5 mg/m³ 8 hours. Issued/Revised:

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STEL: 10 mg/m³ 15 minutes. Issued/

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1/2005 Form: Mist

Biological exposure indices

No exposure indices known.

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 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.

Body 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.

Section 8. Exposure controls/personal protection

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.
Drop Point	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 applicable. Based on - Physical state
Vapour pressure	Not available.

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	<0.08	<0.011	ASTM D 5191			
1-Decene, 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 heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.08	<0.011	ASTM D 5191			

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

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water

Not applicable.

Auto-ignition temperature

Section 9. Physical and chemical properties

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

Decomposition temperature

Not available.

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	Test	Species	Result	Exposure	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	Rat	>5000 mg/kg	-	
	LD50 Oral	Rat	>5000 mg/kg	-	
1-Decene, homopolymer, hydrogenated	LD50 Dermal	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	
	LD50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	LD50 Dermal	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>2000 mg/kg	-	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	Rat	>2000 mg/kg	-	
	-	-	-	-	

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	LD50 Oral	Rat	>5000 mg/kg	-	substances. Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	LD50 Dermal	Rabbit	>2000 mg/kg	-	-
zinc isodecyl phosphorodithioate	LD50 Oral	Rat	>2000 mg/kg	-	-
	LD50 Dermal	Rat	>5000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	3100 mg/kg	-	Based on studies with similar substances.
2,6-di-tert-butylphenol	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat	>5000 mg/kg	-	-

Irritation/Corrosion

Product/ingredient name	Species	Result	Score	Exposure	Observation	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Rabbit	Eyes - Severe irritant	-	-	-	Based on studies with similar substances.
	Rabbit	Skin - Non-irritant to skin.	-	-	-	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	Rabbit	Eyes - Non-irritating to the eyes.	-	-	-	-
	Rabbit	Skin - Non-irritant to skin.	-	-	-	-
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	Rabbit	Eyes - Non-irritating to the eyes.	-	-	-	Based on studies with similar substances.
	Rabbit	Skin - Non-irritant to skin.	-	-	-	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rabbit	Eyes - Non-irritating to the eyes.	-	-	-	Based on studies with similar substances.
	Rabbit	Skin - Non-irritant to skin.	-	-	-	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	Rabbit	Eyes - Non-irritating to the eyes.	-	-	-	-
	Rabbit	Skin - Non-irritant to skin.	-	-	-	-
zinc isodecyl phosphorodithioate	Unspecified	Eyes - Non-irritating to the eyes.	-	-	-	BCOP
	Unspecified	Skin - Non-irritant to skin.	-	-	-	RHE
2,6-di-tert-butylphenol	Rabbit	Eyes - Non-irritating to	-	-	-	-

Section 11. Toxicological information

Rabbit	the eyes. Skin - Irritant -	-	-
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Sensitisation

Product/ingredient name	Route of exposure	Species	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	skin	Guinea pig	Not sensitising	-
Dec-1-ene, homopolymer, hydrogenated	skin	Guinea pig	Not sensitising	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	skin	Guinea pig	Not sensitising	-
zinc isodecyl phosphorodithioate	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
2,6-di-tert-butylphenol	skin	Guinea pig	Not sensitising	-

Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro	Positive	Based on studies with similar substances.
	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Subject: Bacteria Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Subject: Mammal - species unspecified Experiment: In vivo	Negative	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	-
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Subject: Bacteria Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Subject: Mammal - species unspecified Experiment: In vivo	Negative	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Bacteria		

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Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Subject: Mammal - species unspecified Experiment: In vivo	Negative	Based on studies with similar substances.
	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Subject: Bacteria Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Subject: Unspecified Experiment: In vivo	Negative	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	-
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Subject: Bacteria Experiment: In vitro	Negative	-
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	-
zinc isodecyl phosphorodithioate	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Subject: Bacteria Experiment: In vivo	Negative	Based on studies with similar substances.
2,6-di-tert-butylphenol	OECD 471 Bacterial Reverse Mutation Test	Subject: Mammal - species unspecified Experiment: In vitro	Negative	-
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Subject: Bacteria Experiment: In vitro	Negative	-
		Subject: Mammal - species unspecified		

Section 11. Toxicological information

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Result	Exposure
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Negative	Negative	Negative	Rat	Oral	-
1-Decene, homopolymer, hydrogenated	Negative	Negative	Negative	Rat	Oral	-
Dec-1-ene, homopolymer, hydrogenated	Negative	Negative	Negative	Rat	Oral	-
Dec-1-ene, oligomers, hydrogenated	Negative	Negative	Negative	Rat	Oral	-
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	Negative	Negative	Negative	Rat	Oral	-
zinc isodecyl phosphorodithioate	Negative	Negative	Negative	Rat	Oral	-
2,6-di-tert-butylphenol	Positive	Negative	Equivocal	Rat	Oral	-

Aspiration hazard

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ASPIRATION HAZARD - Category 1
1-Decene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
Dec-1-ene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1
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: 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
Ingestion	No specific data.

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

Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.

Potential chronic health effects

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

Section 12. Ecological information

Environmental effects

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

Toxicity

Product/ingredient name	Species	Test/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. Based on studies with similar substances.
	Fish	Acute LL50 >100 mg/l	96 hours	-	
	Algae	Acute NOEL ≥100 mg/l	72 hours	-	
	Daphnia	Chronic NOEL ≥1000 mg/l	21 days	-	
1-Decene, homopolymer, hydrogenated	Algae	Acute EL50 >1000 mg/l	72 hours	-	-
	Daphnia	Acute EL50 >1000 mg/l	48 hours	-	-
	Fish	Acute LL50 >1000 mg/l	96 hours	-	-
	Daphnia	Chronic NOELR 125 mg/l	21 days	-	-
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 >1000 mg/l	96 hours	-	-
	Daphnia	Chronic NOELR 125 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	-	-

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	Fish	Acute LC50 >100 mg/l	96 hours	-	-
	Algae	Chronic NOEC >100 mg/l	72 hours	-	-
	Daphnia	Chronic NOEC 0.026 mg/l	21 days	-	-
	Fish	Chronic NOEC 0.0044 mg/l	87 days	-	-
zinc isodecyl phosphorodithioate	Daphnia	Acute EC50 0.2 mg/l	48 hours	-	-
	Algae	Acute ErC50 >1.6 mg/l	72 hours	-	-
	Fish	Acute LC50 >0.28 mg/l	96 hours	-	-
2,6-di-tert-butylphenol	Algae	Acute EL50 1.2 mg/l	96 hours	-	-
	Daphnia	Acute EL50 0.45 mg/l	48 hours	-	-
	Fish	Acute LC50 1.4 mg/l	96 hours	-	-
	Algae	Chronic NOEC 0.64 mg/l	96 hours	-	-
	Daphnia	Chronic NOEC 0.035 mg/l	21 days	-	-

Persistence and degradability

Partially biodegradable.

Product/ingredient name	Test	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F	31 % - Inherent - 28 days	Based on studies with similar substances.
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 301D	0 % - Not readily - 28 days	-
zinc isodecyl phosphorodithioate	OECD 301b	1 % - Not readily - 28 days	Based on studies with similar substances.
2,6-di-tert-butylphenol	OECD 301B	24 % - Not readily - 28 days	-

Bioaccumulative potential

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

Mobility in soil

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

Mobility Spillages may penetrate the soil causing ground water contamination.

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.

Section 15. Regulatory information

Not applicable.

TCCSCA List of concerned chemicals

Not applicable.

OSHA Article 29 None of the components are listed.

OSHA Article 30 None of the components are listed.

Montreal Protocol

Ingredient name	Status
Not listed.	

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Ingredient name	Status
Not listed.	

Regulation according to other foreign laws

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

Australia inventory (AIIIC) All components are listed or exempted.

Canada inventory status All components are listed or exempted.

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

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

Philippines inventory (PICCS) All components are listed or exempted.

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

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

Procedure used to derive the classification

Classification	Justification
AQUATIC TOXICITY (ACUTE) - Category 3	Calculation method
AQUATIC TOXICITY (CHRONIC) - Category 3	Calculation method

References Not available.

Organisation that prepared the SDS BP

History

Date of printing 6/6/2023

Date of previous issue 26/05/2023.

Version 5

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)
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
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

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