

Section 1. Identification

GHS product identifier	Castrol ON EV Transmission Fluid D2
Product code	470525-DE41
SDS #	470525
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Use of the substance/ mixture	EV Transmission Fluid - Dry e-motor For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Manufacturer Supplier	BP Lubricants USA Inc. 1500 Valley Road Wayne, NJ 07470 Telephone: 1-888-CASTROL
EMERGENCY HEALTH INFORMATION:	1 (800) 447-8735 Outside the US: +1 703-527-3887 (CHEMTREC)
EMERGENCY TELEPHONE NUMBER	1 (800) 424-9300 CHEMTREC (USA)

Section 2. Hazards identification

GHS Classification	AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
<u>GHS label elements</u>	
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.
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	≥50 - ≤75	72623-87-1
1-Decene, homopolymer, hydrogenated	≤10	68037-01-4
Dec-1-ene, homopolymer, hydrogenated	≤10	68037-01-4
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	≤10	68037-01-4
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	64742-65-0

Section 3. Composition/information on ingredients

Distillates (petroleum), solvent-refined heavy paraffinic	≤3	64741-88-4
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	<1	192268-65-8
zinc isodecyl phosphorodithioate	≤0.3	25103-54-2
2,6-di-tert-butylphenol	≤0.3	128-39-2

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.
Skin contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation or rash occurs: Get medical advice/attention.
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.
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. Fire-fighting measures

Extinguishing media

Suitable	Use foam or all-purpose dry chemical to extinguish.
Not suitable	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.
Hazardous thermal decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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 vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
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Section 6. Accidental release measures

For emergency responders Entry into a confined space or poorly ventilated area contaminated with vapor, 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials 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 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

Protective measures Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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 spilled material and runoff with soil and surface waterways.

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


Conditions for safe storage 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 unlabeled 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
 Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2024). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 1/2024). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), solvent-refined heavy paraffinic	ACGIH TLV (United States, 1/2024). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Section 8. Exposure controls/personal protection

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

Biological exposure indices

Ingredient name	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

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.

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.

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.
Color	Brown.
Odor	Not available.
Odor 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.
Pour point	-57 °C
Flash point	Open cup: >220°C (>428°F) [Cleveland ASTM D 92]
Evaporation rate	Not available.
Flammability	Not available.
Flammability	Not applicable. Based on - Physical state
Lower and upper explosion limit/flammability limit	Not available.
Vapor pressure	

Ingredient name	Vapor Pressure at 20°C			Vapor 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			
1-Decene, 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 vapor density	Not available.
Relative density	Not available.
Density	<1000 kg/m³ (<1 g/cm³) at 15°C
Solubility(ies)	

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water	Not applicable.
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Auto-ignition temperature

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

Decomposition temperature

Viscosity	Not available.
	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)

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Section 9. Physical and chemical properties

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 polymerization will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidizing 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	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.
1-Decene, homopolymer, hydrogenated	LD50 Dermal	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated	LD50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours	-
	LD50 Dermal	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	LD50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours	-
	LD50 Dermal	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on

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	LD50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours	-	studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	-	Based on studies with similar substances.
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours	-	-
	LD50 Dermal	Rat	>2000 mg/kg	-	-	Based on studies with similar substances.
	LD50 Oral	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	Rat	>2000 mg/kg	-	-	-
zinc isodecyl phosphorodithioate	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,	Rabbit	Eyes - Non- irritating to	-	-	-	-

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hydrogenated		the eyes.				
	Rabbit	Skin - Non-irritant to skin.	-	-	-	-
Dec-1-ene, 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), hydrotreated heavy paraffinic	Rabbit	Eyes - Non-irritating to the eyes.	-	-	-	Based on studies with similar substances.
	Rabbit	Skin - Mild irritant	-	-	-	Based on studies with similar substances.
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 the eyes.	-	-	-	-
	Rabbit	Skin - Irritant	-	-	-	-

Sensitizer

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

Mutagenicity

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

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	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
Dec-1-ene, homopolymer, hydrogenated	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative	-
		Subject: Bacteria		
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Bacteria		
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
Distillates (petroleum), hydrotreated heavy paraffinic	471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Bacteria		
	473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	Based on studies with similar substances.
		Subject: Mammal - species unspecified		
	476 <i>In vitro</i> 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	OECD 471 Bacterial Reverse Mutation	Experiment: In vitro	Negative	Based on studies with similar

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paraffinic	Test	Subject: Bacteria			substances.	
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	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 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative		-	
		Subject: Mammal - species unspecified				
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative		-	
		Subject: Mammal - species unspecified				
zinc isodecyl phosphorodithioate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative		Based on studies with similar substances.	
		Subject: Bacteria				
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative		Based on studies with similar substances.	
		Subject: Mammal - species unspecified				
2,6-di-tert-butylphenol	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative		-	
		Subject: Bacteria				
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative		-	
		Subject: Mammal - species unspecified				

Carcinogenicity

Product/ingredient name	Species	Route	Exposure	Test	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	Mouse	Dermal	Negative - Dermal - Unspecified	-	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Mouse	Dermal	Negative - Dermal - Unspecified	-	-	Based on studies with similar substances.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Result	Exposure
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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, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	Negative	Negative	Negative	Rat	Oral	-
Distillates (petroleum), hydrotreated heavy paraffinic	Negative	Negative	Negative	Rat	Oral	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	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

Name

Result

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, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1

Information on the 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

Vapor inhalation under ambient conditions is not normally a problem due to low vapor 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 vapor, 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 and also 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 diarrhea.

Potential chronic health effects

General

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Section 11. Toxicological information

Mutagenicity	No known significant effects or critical hazards.
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.
	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.
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	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	21 days	-	Based on

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Section 12. Ecological information

		125 mg/l			studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	Algae	Acute EL50 >100 mg/l	72 hours	-	Based on studies with similar substances.
	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	Chronic NOEL ≥100 mg/l	72 hours	-	Based on data available for this or related materials.
	Daphnia	Chronic NOEL 10 mg/l	21 days	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Algae	Acute EL50 >100 mg/l	72 hours	-	Based on studies with similar substances.
	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	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.
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 0.026 mg/l	21 days	-	-

Section 12. Ecological information

	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.
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F	31 % - Not readily - 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.

Product/ingredient name	LogP _{ow}	BCF	Potential
Decene, homopolymer, hydrogenated	>10	-	High
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

Section 12. Ecological information

2,6-di-tert-butylphenol

4.5

-

High

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 minimized 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 spilled 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

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 (DSL)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (CSCL)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

All components are listed or exempted.

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	11/07/2025.
Date of previous issue	26/04/2024.
Prepared by	Product Stewardship
Key to abbreviations	ACGIH = American Conference of Industrial Hygienists CAS Number = Chemical Abstracts Service Registry Number GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods OEL = Occupational Exposure Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006] SDS = Safety Data Sheet STEL = Short term exposure limit TWA = Time weighted average UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. 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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The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

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