# **SAFETY DATA SHEET**



#### Castrol ON EV Transmission Fluid D2

### **Section 1. Identification**

Product Identifier Castrol ON EV Transmission Fluid D2

Product type Liquid.

**Code** 470525-DE41 **SDS** # 470525

Product use EV Transmission Fluid - Dry e-motor

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

company representative.

**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 Centro Nacional de Control de Intoxicaciones: +506 2223-1028

Number 1 (800) 424-9300 CHEMTREC (USA)

### Section 2. Hazard identification

Classification of the AQUATIC HAZARD (ACUTE) - Category 3
substance or mixture AQUATIC HAZARD (LONG-TERM) - 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.

**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

None known.

# Section 3. Composition/information on ingredients

Substance/mixture Mixture

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

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# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≥50 - ≤75	72623-87-1
Dec-1-ene, homopolymer, hydrogenated	≥10 - ≤25	68037-01-4
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	≥10 - ≤25	68037-01-4
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	64742-65-0
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.

(ENGLISH)

Check for and remove any contact lenses. Get medical attention.

Wash skin thoroughly with soap and water or use recognized skin cleanser. Skin contact

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

#### Potential acute health effects

No known significant effects or critical hazards. **Eye contact** 

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.

No known significant effects or critical hazards. Ingestion

#### Over-exposure signs/symptoms

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.

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#### Section 4. First aid measures

#### 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.

Use foam or all-purpose dry chemical to extinguish.

**Specific treatments** No specific treatment.

See toxicological information (Section 11)

## Section 5. Firefighting measures

**Extinguishing media** 

Suitable extinguishing

media

nina

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.

Hazardous thermal decomposition products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (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 vapor 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 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.

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### Section 6. Accidental release measures

#### 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, 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 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), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 1/2023). [Mineral Oil, pure, highly and severely refined]  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction

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**

No exposure indices known.

# 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

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## Section 8. Exposure controls/personal protection

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

Skin protection

Hand protection

Safety glasses with side shields.

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.

**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 and safety characteristics

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

**Appearance** 

Physical state Liquid.
Color Brown.

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# Section 9. Physical and chemical properties and safety characteristics

Not available. Odor Not available. **Odor threshold** Hq Not applicable. Not available. Melting point/freezing point Not available. **Boiling point, initial boiling** point, and boiling range

**Drop Point** Not available. -57 °C **Pour point** 

Flash point Open cup: >220°C (>428°F) [Cleveland ASTM D 92]

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

limit/flammability limit

Vapor pressure

	Vapo	r Pressu	re at 20°C	Vapor pressure at 50°			
Ingredient name	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 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

Solubility in water Partition coefficient: n-

octanol/water

Not available. 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.

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# Section 9. Physical and chemical properties and safety characteristics

Viscosity Kinematic: 32.2 mm<sup>2</sup>/s (32.2 cSt) at 40°C

Kinematic: 6.3 to 6.8 mm<sup>2</sup>/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 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.	
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	

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								substances.
		LD50 Dermal	Rat		>2000 mg/k	kg -		Based on studies with similar substances.
		LD50 Oral	Rat		>5000 mg/k	kg -		Based on studies with similar substances.
	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	LD50 Dermal	Rabbit		>2000 mg/k	kg -		-
		LD50 Oral	Rat		>2000 mg/k	(g -		-
	zinc isodecyl phosphorodithioate	LD50 Dermal	Rat		>5000 mg/k	kg -		Based on studies with similar substances.
		LD50 Oral	Rat		3100 mg/kg	ı -		Based on studies with similar substances.
	2,6-di-tert-butylphenol	LD50 Dermal	Rabbit		>5000 mg/k	kg -		-
		LD50 Oral	Rat		>5000 mg/k	(g -		-
	Conclusion/Summary		ıvailable.					
	Irritation/Corrosion	11010	ranabio.					
•	Product/ingredient name	Species	Result	Score	Exposure	Observation	Conc.	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.
	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.

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	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.	-	-	-	-	ВСОР
	Unspecified	Skin - Non- irritant to skin.	-	-	-	-	RHE
2,6-di-tert-butylphenol	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	-
	Rabbit	Skin - Irritant	-	-	-	-	-
<u>Sensitization</u>							
Product/ingredient na	me Ro	ute of	Spe	cies	Result	R	emarks

Product/ingredient name	Route of exposure	Species	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	skin	Guinea pig	Not sensitizing	Based on studies with similar substances.
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	skin	Guinea pig	Not sensitizing	-
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	-
Germ cell mutagencity				
Product/ingredient name Test	st E	xperiment	Result	Remarks

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	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 473 <i>In vitro</i> Mammalian Chromosomal	Experiment: In vitro Subject: Mammal - species unspecified	Positive	Based on studies with similar substances.
		Aberration Test	openies amopeemies		
		OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
		OECD 476 <i>In vitro</i> 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), solvent-dewaxed heavy paraffinic	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
		OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
		OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: 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.
	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	-
	donvatives	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	-
		OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	-
	zinc isodecyl phosphorodithioate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	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.
	2,6-di-tert-butylphenol	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	-
		. 7/11/2025 Data		. 4/06/0004	

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OECD 473 In vitro

Mammalian Chromosomal **Aberration Test**  Experiment: In vitro Negative

Subject: Mammal species unspecified

Conclusion/Summary

Date of issue 07/11/2025.

Not available.

#### **Carcinogenicity**

Product/ingredient name	Test authority / Test number		Species	Route	Exposure	Result	Remarks	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD	451	Mouse	Dermal	-	Negative - Dermal - Unspecified	Based on studies with similar substances.	

**Conclusion/Summary** 

Not available.

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Negative	Negative	Negative	Rat	Oral	-	-
Dec-1-ene, homopolymer, hydrogenated 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	-	-

**Conclusion/Summary** 

Not available.

#### **Aspiration hazard**

**Name** Result

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers,

hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic

ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

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.

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

Inhalation Vapor inhalation under ambient conditions is not normally a problem due to low

vapor pressure.

Ingestion No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

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# **Section 11. Toxicological information**

Eye contact No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

**Inhalation** May be harmful by inhalation if exposure to vapor, mists or fumes resulting from

thermal decomposition products occurs.

**Ingestion** No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation

of the respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhea.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation and/or

dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

#### Potential chronic health effects

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

# **Section 12. Ecological information**

**Environmental effects** 

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

#### **Toxicity**

No testing has been performed by the manufacturer.

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.
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

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					similar
	Fish	Acute LL50	96 hours	_	substances.
	1 1011	>1000 mg/l	00110410		
	Daphnia	Chronic NOELR	21 days	-	Based on
		125 mg/l			studies with similar
					substances.
Distillates (petroleum),	Daphnia	Acute EL50	48 hours	-	Based on
solvent-dewaxed heavy paraffinic		>1000 mg/l			studies with similar
neavy paramino					substances.
	Algae	Acute ErL50 100	72 hours	-	Based on
		mg/l			studies with similar
					similai substances.
	Fish	Acute LL50 >100	96 hours	-	Based on
		mg/l			studies with
					similar substances.
	Algae	Chronic NOELR	72 hours	-	Based on
	_	100 mg/l			studies with
					similar substances.
	Daphnia	Chronic NOELR	21 days	-	Based on
	·	10 to 1000 mg/l	·		studies with
					similar substances.
reaction mass of:	Algae	Acute EC50	72 hours	-	substances.
triphenylthiophosphate	9	>100 mg/l			
and tertiary butylated					
phenyl derivatives	Daphnia	Acute EC50	48 hours	-	-
	•	>100 mg/l			
	Fish	Acute LC50	96 hours	-	-
	Algae	>100 mg/l Chronic NOEC	72 hours	-	_
	9	>100 mg/l			
	Daphnia	Chronic NOEC	21 days	-	-
	Fish	0.026 mg/l Chronic NOEC	87 days	-	_
		0.0044 mg/l	or days		
zinc isodecyl	Daphnia	Acute EC50 0.2	48 hours	-	-
phosphorodithioate	Algae	mg/l Acute ErC50	72 hours	_	_
	Algae	>1.6 mg/l	72 110013		
	Fish	Acute LC50	96 hours	-	-
2,6-di-tert-butylphenol	Algae	>0.28 mg/l Acute EL50 1.2	96 hours		
z,o-di-tert-batyipherior	Algae	mg/l	90 Hours	-	-
	Daphnia	Acute EL50 0.45	48 hours	-	-
	Fieb	mg/l	OG hours		
	Fish	Acute LC50 1.4 mg/l	96 hours	-	-
	Algae	Chronic NOEC	96 hours	-	-
	Danhnis	0.64 mg/l	01 days		
	Daphnia	Chronic NOEC 0.035 mg/l	21 days	-	-
		5.555 mg/			

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#### Persistence and degradability

Partially biodegradable.

**Product/ingredient name Test** Result Remarks 31 % - Inherent - 28 days Lubricating oils (petroleum), OECD 301F Based on studies with similar C20-50, hydrotreated neutral substances. oil-based OECD 301D reaction mass of: 0 % - Not readily - 28 days triphenylthiophosphate and tertiary butylated phenyl derivatives zinc isodecyl OECD 301b 1 % - Not readily - 28 days Based on studies with similar phosphorodithioate 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 <sub>ow</sub>	BCF	<b>Potential</b>
Dec-1-ene, homopolymer, hydrogenated	>6.5	-	High
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	>10	-	High
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	4.8 to 8.8	-	High
2,6-di-tert-butylphenol	4.5	-	High

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

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 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.

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## **Section 14. Transport information**

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

Special precautions for user Not available.

Transport in bulk according to IMO instruments

Not available.

# Section 15. Regulatory information

#### **International regulations**

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**Other regulations** 

Australia inventory (AIIC)
Canada inventory
China inventory (IECSC)
Japan inventory (CSCL)
Korea inventory (KECI)
Philippines inventory
(PICCS)
All components are listed or exempted.

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

**United States inventory** 

All components are active or exempted.

(TSCA 8b)
REACH Status

The company, as identified in Section 1, sells this product in the EU in compliance

with the current requirements of REACH.

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#### Section 16. Other information

**History** 

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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,

72623-87-1VOC = Volatile Organic Compound

#### 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.

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