

Spec Mix 2T semisynthetic

Creation date 07th June 2024
Revision date Version 1.0

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

- 1.1. Product identifier** Spec Mix 2T semisynthetic
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Engine Oils.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Mixture uses advised against
Not defined.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name SPECOL Sp. z o.o.
Address ul. Kluczborska 31, Chorzów, 41-508
Poland
VAT Reg No PL6272453121
Phone 32 245 91 33
E-mail info@specol.com.pl
Web address www.specol.com.pl
- Competent person responsible for the safety data sheet**
Name SPECOL Sp. z o.o.
E-mail info@specol.com.pl
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Aquatic Chronic 3, H412
Most serious adverse effects on human health and the environment
Harmful to aquatic life with long lasting effects.
- 2.2. Label elements**
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
- 2.3. Other hazards**
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. The mixture contains substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

- 3.2. Mixtures**
Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 926-141-6 Registration number: 01-2119456620-43-xxxx	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	20	Asp. Tox. 1, H304 EUH066	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic	1,125-1,875	not classified as dangerous	
CAS: 64742-65-0 EC: 265-169-7 Registration number: 01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic	0,375-0,75	Asp. Tox. 1, H304	
CAS: 64741-88-4 EC: 265-090-8 Registration number: 01-2119488706-23	Distillates (petroleum), solvent-refined heavy paraffinic	0,375-0,75	not classified as dangerous	
CAS: 128-39-2 EC: 204-884-0 Registration number: 01-2119490822-33	2,6-di-tert-butylphenol	0,375-0,6225	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 604-092-00-9 CAS: 74499-35-7	phenol, (tetrapropenyl) derivatives	0,0225-0,0375	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	1, 2
Index: 604-092-00-9 CAS: 74499-35-7 EC: 616-100-8	Phenol, (tetrapropenyl) derivs.	0,0225-0,0375	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

Notes

- Substance of very high concern - SVHC.
 - The use of the substance is restricted by Annex XVII of REACH Regulation
- Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

Not expected.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

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DNEL

2,6-di-tert-butylphenol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	11.25 mg/kg bw/day	Chronic effects local		
Workers	Inhalation	70.61 mg/m ³	Chronic effects local		
Consumers	Oral	6.75 mg/kg bw/day	Chronic effects local		
Consumers	Inhalation	20.9 mg/m ³	Chronic effects local		

phenol, (tetrapropenyl) derivatives					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.053 mg/m ³	Chronic effects local		
Workers	Oral	0.25 mg/kg bw/day	Chronic effects local		
Workers	Dermal	0.25 mg/kg bw/day	Chronic effects local		

Phenol, (tetrapropenyl) derivs.					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.053 mg/m ³	Chronic effects local		
Workers	Oral	0.25 mg/kg bw/day	Chronic effects local		
Workers	Dermal	0.25 mg/kg bw/day	Chronic effects local		

PNEC

2,6-di-tert-butylphenol			
Route of exposure	Value	Value determination	Source
Drinking water	0.00045 mg/l		
Marine water	0.000045 mg/l		

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	not applicable
Odour	not applicable
Melting point/freezing point	not applicable
Boiling point or initial boiling point and boiling range	not applicable
Flammability	not applicable
Lower and upper explosion limit	not applicable
Flash point	70 °C
Auto-ignition temperature	not applicable
Decomposition temperature	not applicable
pH	non-soluble (in water)
Kinematic viscosity	80 mm ² /s at 40 °C
Solubility in water	not applicable
Partition coefficient n-octanol/water (log value)	not applicable
Vapour pressure	not applicable
Density and/or relative density	
Density	0.850-0.860 g/cm ³ at 15 °C
Relative vapour density	not applicable
Particle characteristics	not applicable
Form	data not available
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)	liquid

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

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Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2,6-di-tert-butylphenol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Skin	LD ₅₀		>10000 mg/kg		Rabbit	
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	LC ₅₀	OECD 403	>5.53 mg/l	4 hours	Rat (Rattus norvegicus)	
Skin	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit	
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation (vapor)	LC ₅₀	OECD 403	>5.53 mg/l	4 hours	Rat (Rattus norvegicus)	
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit	
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	

Distillates (petroleum), solvent-refined heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation (vapor)	LC ₅₀	OECD 403	>5.53 mg/l	4 hours	Rat (Rattus norvegicus)	
Skin	LD ₅₀		>2000 mg/kg		Rabbit	
Skin	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)	

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀		>3160 mg/kg		Rabbit	
Inhalation	LD ₅₀	OECD 403	>4950 mg/kg	4 hours	Rat (Rattus norvegicus)	

phenol, (tetrapropenyl) derivatives

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD ₅₀	OECD 402	15000 mg/kg		Rabbit	
Oral	LD ₅₀	OECD 401	2200 mg/kg		Rat (Rattus norvegicus)	

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Phenol, (tetrapropenyl) derivs.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD ₅₀	OECD 402	15000 mg/kg		Rabbit	
Oral	LD ₅₀	OECD 401	2200 mg/kg		Rat (<i>Rattus norvegicus</i>)	

Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2,6-di-tert-butylphenol

Route of exposure	Result	Method	Exposure time	Species
Skin	Irritating	OECD 404		Rabbit
Eye	Not irritating	OECD 405		Rabbit

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404		Rabbit
Eye	Not irritating	OECD 405		Rabbit

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404		Rabbit
Eye	Not irritating	OECD 405		Rabbit

Distillates (petroleum), solvent-refined heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species
Eye	Not irritating	OECD 405		Rabbit
Dermal	Not irritating	OECD 404		Rabbit

Phenol, (tetrapropenyl) derivs.

Route of exposure	Result	Method	Exposure time	Species
Dermal	Causes damage	OECD 404		Rabbit
Eye	Serious eye damage	OECD 405		Rabbit

Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Respiratory or skin sensitisation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Sensitization

2,6-di-tert-butylphenol

Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	Not sensitizing	OECD 406		Guinea-pig (<i>Cavia aperea f. porcellus</i>)	

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Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

Distillates (petroleum), solvent-refined heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

phenol, (tetrapropenyl) derivatives

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

Phenol, (tetrapropenyl) derivs.

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2,6-di-tert-butylphenol

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 473			Mammals	

Distillates (petroleum), hydrotreated heavy paraffinic

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 473			Mammals	
Negative	OECD 476			Mammals	
Negative	OECD 474			Mammals	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 473			Mammals	

Distillates (petroleum), solvent-refined heavy paraffinic

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 471			Mammals	

phenol, (tetrapropenyl) derivatives

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 476				

Phenol, (tetrapropenyl) derivs.

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 476			Mammals	

Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Skin	NOAEL	OECD 451		78 weeks	Negative	Mouse	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
	NOAEL	OECD 451		78 weeks	Negative	Mouse	

Distillates (petroleum), solvent-refined heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Skin	NOAEL	OECD 451		78 weeks	Negative	Mouse	

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Reproductive toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2,6-di-tert-butylphenol

Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity		OECD 421		Positive	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 421		Indeterminate	Rat (Rattus norvegicus)	
Effects on fertility		OECD 421		Negative	Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated heavy paraffinic

Effect	Parameter	Method	Value	Result	Species	Sex
Developmental toxicity		OECD 421		Negative	Rat (Rattus norvegicus)	
Effects on fertility		OECD 421		Negative	Rat (Rattus norvegicus)	
Maternal toxicity		OECD 421		Negative	Rat (Rattus norvegicus)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Effect	Parameter	Method	Value	Result	Species	Sex
Effects on fertility		OECD 421		Negative	Rat (Rattus norvegicus)	
Maternal toxicity		OECD 421		Negative	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 414		Negative	Rat (Rattus norvegicus)	

Distillates (petroleum), solvent-refined heavy paraffinic

Effect	Parameter	Method	Value	Result	Species	Sex
Effects on fertility		OECD 421		Negative	Rat (Rattus norvegicus)	
Maternal toxicity		OECD 421		Negative	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 421		Negative	Rat (Rattus norvegicus)	

phenol, (tetrapropenyl) derivatives

Effect	Parameter	Method	Value	Result	Species	Sex
Effects on fertility		OECD 416		Positive	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 416		Positive	Rat (Rattus norvegicus)	
		OECD 416		Maternal toxicity	Rat (Rattus norvegicus)	

Phenol, (tetrapropenyl) derivs.

Effect	Parameter	Method	Value	Result	Species	Sex
Effects on fertility		OECD 416		Positive	Rat (Rattus norvegicus)	

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Phenol, (tetrapropenyl) derivs.

Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity		OECD 416		Positive	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 416		Positive	Rat (Rattus norvegicus)	

Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Repeated dose toxicity

2,6-di-tert-butylphenol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 408	270 mg/kg	90 days	Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 407	100 mg/kg	28 days	Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 408	125 mg/kg	90 days	Rat (Rattus norvegicus)	
Dermal	NOAEL		OECD 411	30 mg/kg		Rat (Rattus norvegicus)	
Dermal	NOAEL		OECD 410	1000 mg/kg		Rabbit	
Inhalation (dust/mist)	NOAEL			0.22 mg/l	4 weeks	Rat (Rattus norvegicus)	
Inhalation (dust/mist)	NOAEL			0.15 mg/l	13 weeks	Rat (Rattus norvegicus)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Skin	NOAEL		OECD 410	1000 mg/kg	21/28 days	Rabbit	
Inhalation (vapor)	NOAEL			0.05 mg/l	13 weeks	Rat (Rattus norvegicus)	

Distillates (petroleum), solvent-refined heavy paraffinic

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Dermal	NOAEL		OECD 410	1000 mg/kg	21/28 days	Rabbit	
Inhalation (vapor)	NOAEL			0.15 mg/l	13 weeks	Rat (Rattus norvegicus)	
Inhalation (vapor)	NOAEL			0.22 mg/l	28 days	Rat (Rattus norvegicus)	

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phenol, (tetrapropenyl) derivatives							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 407	60 mg/kg		Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 416	15 mg/kg		Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 408	100 mg/kg		Rat (Rattus norvegicus)	

Phenol, (tetrapropenyl) derivs.							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 407	60 mg/kg	28 days	Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 416	15 mg/kg		Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 408	100 mg/kg	90 days	Rat (Rattus norvegicus)	

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

The mixture contains substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

2,6-di-tert-butylphenol					
Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀		1.2 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₅₀		0.45 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀		>1000 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)	
LC ₅₀		1.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

Distillates (petroleum), hydrotreated heavy paraffinic					
Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
LL ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
LL ₅₀		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

Distillates (petroleum), solvent-refined heavy paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		>1000 mg/l	48 hours	Daphnia (Daphnia magna)	
LL ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)	

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀		>1000 mg/l	48 hours	Fish (Oncorhynchus mykiss)	
LL ₀	OECD 203	>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EL ₅₀		>1000 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EL ₀	OECD 202	>1000 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EL ₅₀		>1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOELR	OECD 201	>1000 mg/l	72 hours	Algae	
EL ₅₀		>1000 mg/l	72 hours	Bacteria	

phenol, (tetrapropenyl) derivatives

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		0.36 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)	
EL ₅₀		0.037 mg/l	48 hours	Daphnia (Daphnia magna)	
EL ₅₀		>1000 mg/l	3 hours	Microorganisms	
LL ₅₀		40 mg/l	96 hours	Fish (Pimephales promelas)	
NOEL		0.07 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)	
NOEL		0.0037 mg/l	21 days	Daphnia (Daphnia magna)	

Phenol, (tetrapropenyl) derivs.

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		0.36 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

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Phenol, (tetrapropenyl) derivs.

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		0.037 mg/l	48 hours	Daphnia (Daphnia magna)	
EL ₅₀		>1000 mg/l	3 hours	Microorganisms	
LL ₅₀		40 mg/l	96 hours	Fish (Pimephales promelas)	

Chronic toxicity

2,6-di-tert-butylphenol

Parameter	Value	Exposure time	Species	Environment
NOEC	0.64 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC	0.035 mg/l	21 days	Daphnia (Daphnia magna)	

Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Value	Exposure time	Species	Environment
NOEL	≥100 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
NOEL	10 mg/l	21 days	Daphnia (Daphnia magna)	
NOEL	1000 mg/l	14 days	Fish (Oncorhynchus mykiss)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Parameter	Value	Exposure time	Species	Environment
NOEL	>100 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
NOEL	10 mg/l	21 days	Daphnia (Daphnia magna)	
NOEL	1000 mg/l	14 days	Fish (Oncorhynchus mykiss)	

Distillates (petroleum), solvent-refined heavy paraffinic

Parameter	Value	Exposure time	Species	Environment
NOEL	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEL	10 mg/l	21 days	Daphnia (Daphnia magna)	
NOEL	1000 mg/l	14 days	Daphnia (Daphnia magna)	

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Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Value	Exposure time	Species	Environment
NOELR	0.173 mg/l	28 days	Fish (Oncorhynchus mykiss)	
NOELR	1.22 mg/l	28 days	Aquatic invertebrates	

Phenol, (tetrapropenyl) derivs.

Parameter	Value	Exposure time	Species	Environment
NOEL	0.07 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
NOEL	0.0037 mg/l	21 days	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

2,6-di-tert-butylphenol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 302C	12-24 %	28 days		Hardly biodegradable

Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	31 %	28 days		Hardly biodegradable

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	31 %	28 days		Hardly biodegradable

Distillates (petroleum), solvent-refined heavy paraffinic

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	31 %	28 days		Hardly biodegradable

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F				Easily biodegradable

phenol, (tetrapropenyl) derivatives

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	6-25 %	28 days		Hardly biodegradable

Phenol, (tetrapropenyl) derivs.

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	6-25 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

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2,6-di-tert-butylphenol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	4.5				

Distillates (petroleum), solvent-refined heavy paraffinic

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	3.9-6				

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	>3				

phenol, (tetrapropenyl) derivatives

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	289-1601				

Phenol, (tetrapropenyl) derivs.

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	289-1601				

12.4. Mobility in soil

No data are available for either the mixture or the components.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture contains substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

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- 14.2. UN proper shipping name**
not relevant
- 14.3. Transport hazard class(es)**
not relevant
- 14.4. Packing group**
not relevant
- 14.5. Environmental hazards**
not relevant
- 14.6. Special precautions for user**
Reference in the Sections 4 to 8.
- 14.7. Maritime transport in bulk according to IMO instruments**
not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

phenol, (tetrapropenyl) derivatives

Restriction	Conditions of restriction
30	Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: - Shall not be placed on the market, or used, - as substances, - as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". - By way of derogation, paragraph 1 shall not apply to: - medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; - cosmetic products as defined by Directive 76/768/EEC; - the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); - artists' paints covered by Regulation (EC) No 1272/2008; - the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. - devices covered by Regulation (EU) 2017/745.

- 15.2. Chemical safety assessment**
not available

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SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P273	Avoid release to the environment.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

A list of additional standard phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
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Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₀	Effective Loading for 0% of the tested organisms
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₀	Lethal Loading for 0% of tested organisms
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate

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OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.