



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

Specol L-HM/HLP 46 BZn

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**
Substance / mixture Specol L-HM/HLP 46 BZn mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Hydraulic Oil.
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 not classified as dangerous according to Regulation (EC) No 1272/2008.
- 2.2. Label elements**
none
- 2.3. Other hazards**
The mixture does not contain 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. 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.

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
CAS: 64742-54-7 EC: 265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	≥95	not classified as dangerous	1
CAS: 128-39-2 EC: 204-884-0	Phenol, 2,6-bis(1,1-dimethylethyl)-	0,1-0,12	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic	0-0,19	Asp. Tox. 1, H304	
CAS: 64742-56-9 EC: 265-159-2 Registration number: 01-2119480132-48	Distillates (petroleum), solvent-dewaxed light paraffinic	0-0,19	Asp. Tox. 1, H304	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 64742-53-6 EC: 265-156-6	Distillates (petroleum), hydrotreated light naphthenic	0,005-0,05	Asp. Tox. 1, H304	1
CAS: 64742-55-8 EC: 265-158-7	Distillates (petroleum), hydrotreated light paraffinic	0,005-0,05	Asp. Tox. 1, H304	1
CAS: 72623-86-0 EC: 276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	0,005-0,05	Asp. Tox. 1, H304	1
CAS: 122-39-4 EC: 204-539-4	Benzenamine, N-phenyl-	0,001-0,005	Acute Tox. 3, H301+H311+H331 Eye Irrit. 2, H319 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Specific concentration limit: ATE Oral = 100 mg/kg bw	

Notes

- Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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.

If on skin

Remove contaminated clothes.

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.

If swallowed

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

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

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

not available

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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 chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

After removal of the product, wash the contaminated site with plenty of water.

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.

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.

DNEL

Distillates (petroleum), hydrotreated heavy paraffinic					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5.4 mg/m ³	Chronic effects local		
Consumers	Inhalation	1.2 mg/m ³	Chronic effects local		

Distillates (petroleum), hydrotreated light naphthenic					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2.73 mg/m ³	Chronic effects systemic		
Workers	Inhalation	5.58 mg/m ³	Chronic effects local		
Workers	Dermal	0.97 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.74 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	1.19 mg/m ³	Chronic effects local		

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Distillates (petroleum), hydrotreated light paraffinic					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2.73 mg/m ³	Chronic effects systemic		
Workers	Inhalation	5.58 mg/m ³	Chronic effects local		
Workers	Dermal	0.97 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	1.19 mg/m ³	Chronic effects systemic		
Consumers	Oral	0.74 mg/kg bw/day	Chronic effects systemic		

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2.73 mg/m ³	Chronic effects systemic		
Workers	Inhalation	5.58 mg/m ³	Chronic effects local		
Workers	Dermal	0.97 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.74 mg/kg bw/day	Chronic effects systemic		

Phenol, 2,6-bis(1,1-dimethylethyl)-					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	2.77 mg/kg	Chronic effects systemic		
Workers	Inhalation	19.6 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	5.8 mg/m ³	Chronic effects systemic		
Consumers	Oral	1.67 mg/kg	Chronic effects systemic		

PNEC

Distillates (petroleum), hydrotreated heavy paraffinic			
Route of exposure	Value	Value determination	Source
Oral	9.33 mg/kg of food		

Distillates (petroleum), hydrotreated light naphthenic			
Route of exposure	Value	Value determination	Source
Secondary poisoning	9.33 mg/kg of food		

Distillates (petroleum), hydrotreated light paraffinic			
Route of exposure	Value	Value determination	Source
Secondary poisoning	9.33 mg/kg of food		

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based			
Route of exposure	Value	Value determination	Source
Secondary poisoning	9.33 mg/kg of food		

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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. When handling in long-term or repeatedly, use protective gloves.

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.

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	210 °C
Auto-ignition temperature	not applicable
Decomposition temperature	not applicable
pH	non-soluble (in water)
Kinematic viscosity	41.4-50.6 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	0.859-0.869 g/cm ³ at 15 °C
Relative vapour density	not applicable
Particle characteristics	not applicable

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.

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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.

Acute toxicity

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

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		8000000 mg/kg				Calculation of value
Dermal	ATE		24000000 mg/kg				Calculation of value
Inhalation (vapor)	ATE		240000 mg/l				Calculation of value

Benzenamine, N-phenyl-							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral			100 mg/kg				
Oral	ATE		100 mg/kg bw				

Distillates (petroleum), hydrotreated heavy paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC ₅₀		5.53 mg/l		Rat (Rattus norvegicus)		
Skin	LD ₅₀		5000 mg/kg		Rabbit		
Oral	LD ₅₀		5000 mg/kg		Rat (Rattus norvegicus)		

Distillates (petroleum), hydrotreated light naphthenic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)		
Inhalation (dust/mist)	LD ₅₀	OECD 403	>5.53 mg/l	4 hours	Rat (Rattus norvegicus)		
Dermal	LD ₅₀	OECD 402	>5000 mg/kg	4 hours	Rabbit		

Distillates (petroleum), hydrotreated light paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 401	>5000 mg/kg				
Inhalation (dust/mist)	LC ₅₀	OECD 403	>5.53 mg/l	4 hours			
Dermal	LD ₅₀	OECD 402	>5000 mg/kg				

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)		

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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

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

Phenol, 2,6-bis(1,1-dimethylethyl)-

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

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.

Benzenamine, N-phenyl-

Route of exposure	Result	Method	Exposure time	Species
	Not irritating			Rabbit

Distillates (petroleum), hydrotreated light naphthenic

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

Distillates (petroleum), hydrotreated light paraffinic

Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating			Rabbit

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

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

Phenol, 2,6-bis(1,1-dimethylethyl)-

Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating			

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.

Benzenamine, N-phenyl-

Route of exposure	Result	Method	Exposure time	Species
	Irritating			Rabbit

Distillates (petroleum), hydrotreated light naphthenic

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

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Distillates (petroleum), hydrotreated light paraffinic

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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

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

Phenol, 2,6-bis(1,1-dimethylethyl)-

Route of exposure	Result	Method	Exposure time	Species
	Not irritating			Rabbit

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.

Benzenamine, N-phenyl-

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

Distillates (petroleum), hydrotreated light naphthenic

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

Distillates (petroleum), hydrotreated light paraffinic

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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Result	Method	Exposure time	Species	Sex
	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.

Benzenamine, N-phenyl-

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

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Benzenamine, N-phenyl-					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative without metabolic activation	OECD 473			Chinese hamster (Cricetulus barabensis)	
Negative without metabolic activation	OECD 476			Mouse (lymphoma)	
Negative	OECD 486			Rat (Rattus norvegicus)	
Negative	OECD 474			Mouse	
Positive with metabolic activation	OECD 476			Mouse (lymphoma)	
Positive with metabolic activation	OECD 473			Chinese hamster (Cricetulus barabensis)	

Distillates (petroleum), hydrotreated light naphthenic					
Result	Method	Exposure time	Specific target organ	Species	Sex
Indeterminate	OECD 471				
Negative	OECD 473			Chinese hamster (Cricetulus barabensis)	
Indeterminate	OECD 476			Mouse (lymphoma)	
Negative	OECD 474			Mouse	

Distillates (petroleum), hydrotreated light paraffinic					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 473			Chinese hamster (Cricetulus barabensis)	
Negative	OECD 476			Mouse (lymphoma)	
Negative	OECD 474			Mouse	

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based					
Result	Method	Exposure time	Specific target organ	Species	Sex
Indeterminate	OECD 471				
Negative	OECD 473			Chinese hamster (Cricetulus barabensis)	
Indeterminate	OECD 476			Mouse (lymphoma)	
Negative	OECD 474			Mouse	

Carcinogenicity

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

Benzenamine, N-phenyl-							
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOAEL	OECD 451	250 ppm	2 years	Positive	Rat (Rattus norvegicus)	

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Benzenamine, N-phenyl-

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOAEL	OECD 451	250 ppm	2 years	Positive	Mouse	

Distillates (petroleum), hydrotreated light paraffinic

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

Reproductive toxicity

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 light naphthenic

Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity	NOAEL	OECD 421	1000 mg/kg bw/day	Negative	Rat (Rattus norvegicus)	
Effects on fertility	NOAEL	OECD 421	1000 mg/kg bw/day	Negative	Rat (Rattus norvegicus)	
Developmental toxicity	NOAEL	OECD 421	1000 mg/kg bw/day	Negative	Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated light paraffinic

Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity	NOAEL	OECD 421	≥1000 mg/kg bw	Negative	Rat (Rattus norvegicus)	
Effects on fertility	NOAEL	OECD 421	≥1000 mg/kg bw	Negative	Rat (Rattus norvegicus)	

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity	NOAEL	OECD 441	≥1000 mg/kg bw/day		Rat (Rattus norvegicus)	
Effects on fertility	NOAEL	OECD 441	≥1000 mg/kg bw/day		Rat (Rattus norvegicus)	
Developmental toxicity	NOAEL	OECD 441	≥1000 mg/kg bw/day		Rat (Rattus norvegicus)	

Toxicity for specific target organ - single exposure

Data for the mixture are not available. 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

Benzenamine, N-phenyl-

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 452	3 mg/kg	2 years	Rat (Rattus norvegicus)	

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Benzenamine, N-phenyl-							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 452	30 mg/kg	2 years	Rat (Rattus norvegicus)	
Oral	LOAEL		OECD 452	20 mg/kg	737 days	Dog	
Oral	NOAEL		OECD 452	2 mg/kg	737 days	Dog	

Distillates (petroleum), hydrotreated light naphthenic							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral			OECD 408	125-500 mg/kg bw/day	90 days (7 days/week)	Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated light paraffinic							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 408	125 mg/kg	90 days	Rat (Rattus norvegicus)	
Inhalation (dust/mist)	NOAEL		OECD 412	>980 mg/m ³	28 days	Rat (Rattus norvegicus)	
Inhalation (dust/mist)	NOAEL		OECD 410	1000 mg/kg	28 days	Rabbit	

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 408	125 mg/kg	90 days (7 days/week)	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 does not contain 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

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

Acute toxicity

Benzenamine, N-phenyl-					
Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀	OECD 202	2 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC ₅₀	OECD 201	2.17 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC	OECD 201	0.37 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

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Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀		>10000 mg/l	48 hours	Invertebrates (Daphnia magna)	
NOEL		100 mg/l	21 days	Invertebrates (Daphnia magna)	
EC ₅₀		>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)	

Distillates (petroleum), hydrotreated light naphthenic

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EL ₅₀	OECD 202	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
EL ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Selenastrum capricornutum)	
NOELR	OECD 201	>100 mg/l	72 hours	Algae (Selenastrum capricornutum)	

Distillates (petroleum), hydrotreated light paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Pimephales promelas)	
EL ₅₀	OECD 202	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
EL ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Selenastrum capricornutum)	
NOEC	OECD 201	≥100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Pimephales promelas)	
EL ₅₀	OECD 202	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
EL ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOELR	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Phenol, 2,6-bis(1,1-dimethylethyl)-

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		1.4 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀		0.45 mg/l	48 hours	Daphnia (Daphnia magna)	

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Phenol, 2,6-bis(1,1-dimethylethyl)-

Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀		>1000 mg/l	3 hours	Microorganisms	

Chronic toxicity

Benzenamine, N-phenyl-

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 202	0.16 mg/l	21 days	Daphnia (Daphnia magna)	

Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
NOEL		>1000 mg/l	28 days	Fish (Oncorhynchus mykiss)	

Distillates (petroleum), hydrotreated light naphthenic

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀	OECD 211	>10 mg/l	21 days	Daphnia (Daphnia magna)	

Distillates (petroleum), hydrotreated light paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
NOELR	OECD 211	>10 mg/l	21 days	Daphnia (Daphnia magna)	

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Parameter	Method	Value	Exposure time	Species	Environment
NOELR	OECD 211	10 mg/l	21 days	Daphnia (Daphnia magna)	

Phenol, 2,6-bis(1,1-dimethylethyl)-

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		0.006 mg/l	60 days	Fish	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

Benzenamine, N-phenyl-

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	26 %	28 days		Hardly biodegradable

Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Method	Value	Exposure time	Environment	Result
		2-31 %	28 days		Hardly biodegradable

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Distillates (petroleum), hydrotreated light naphthenic

Parameter	Method	Value	Exposure time	Environment	Result
					Hardly biodegradable

Distillates (petroleum), hydrotreated light paraffinic

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	2-4 %	28 days		

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Parameter	Method	Value	Exposure time	Environment	Result
					Hardly biodegradable

Phenol, 2,6-bis(1,1-dimethylethyl)-

Parameter	Method	Value	Exposure time	Environment	Result
					Not biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

Benzenamine, N-phenyl-

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 107	3.82				20°C

Phenol, 2,6-bis(1,1-dimethylethyl)-

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow		4.92				

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 does not contain 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.

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Waste type code

13 01 10* mineral based non-chlorinated hydraulic 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

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).

15.2. Chemical safety assessment

not available

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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

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

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EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
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 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
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
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure

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



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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.