SAFETY DATA SHEET

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

Hipospec GL-4 80W/90

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 — Hipospec GL-4 80W/90

Substance / mixture — mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Mixture's intended use

Gear 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 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.

Supplemental information

EUH208	Contains Amines, C10-C14-tert-alkyl. May produce an allergic reaction.

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	>70	not classified as dangerous	1

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68937-96-2 EC: 956-717-2	Polysulfides, di-tert-Bu	0,91-1,05	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	
EC: 701-175-2	Amines, C10-C14-tert-alkyl	0,04-0,07	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 1, H330 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Specific concentration limit: ATE Oral = 612 mg/kg bw ATE Dermal = 251 mg/kg bw ATE Inhalation (vapor) = 1,19 mg/l	
CAS: 1213789-63-9 EC: 627-034-4 Registration number: 01-2119473797-19	Amines, C16-18 and C16-18-unsatd. alkyl	0,01-0,04	Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) Specific concentration limit: ATE Oral = 1689 mg/kg bw STOT RE 2, H373 (immune system, liver, the gastrointestinal tract): C ≥ 10 %	
CAS: 64742-65-0 EC: 265-169-7 Registration number: 01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic	0,01-0,04	Asp. Tox. 1, H304	
CAS: 64741-88-4 EC: 265-090-8 Registration number: 01-2119488706-23	Distillates (petroleum), solvent-refined heavy paraffinic	0,01-0,04	not classified as dangerous	

Notes

1 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. 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.

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.

DNEL

Amines, C10-C14-tert-alkyl					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	0.35 mg/kg	Chronic effects local		

Amines, C16-18 and C16-18-unsatd. alkyl					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.09 mg/kg	Chronic effects local		
Consumers	Oral	0.04 mg/kg	Chronic effects local		

Distillates (petroleum), hydrotreated heavy paraffinic					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5.4 mg/m³	Chronic effects local		
Consumers	Inhalation	1.2 mg/m³	Chronic effects local		

PNEC

Amines, C10-C14-tert-alkyl			
Route of exposure	Value	Value determination	Source
Drinking water	0.001 mg/l		

Amines, C16-18 and C16-18-unsatd. alkyl			
Route of exposure	Value	Value determination	Source
Drinking water	0.26 µg/l		

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

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.

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	150 mm²/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	0.890-0.898 g/cm³ at 15 °C
Relative vapour density	not applicable
Particle characteristics	not applicable
Form	data not available
Amines, C16-18 and C16-18-unsatd. alkyl (CAS: 1213789-63-9)	liquid
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.

Acute toxicity

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

Hipospec GL-4 80W/90							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		689300 mg/kg				Calculation of value
Dermal	ATE		358600 mg/kg				Calculation of value
Inhalation (vapor)	ATE		1700 mg/l				Calculation of value

Amines, C10-C14-tert-alkyl							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation (vapor)	LC_{50}	OECD 403	1.19 mg/ml	4 hours	Rat (Rattus norvegicus)		
Skin	LD_{50}	OECD 402	251 mg/kg		Rat (Rattus norvegicus)		
Oral	LD_{50}	OECD 401	612 mg/kg		Rat (Rattus norvegicus)		
Oral	ATE		612 mg/kg bw				
Dermal	ATE		251 mg/kg bw				
Inhalation (vapor)	ATE		1.19 mg/l				

Amines, C16-18 and C16-18-unsatd. alkyl							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	OECD 401	1689 mg/kg		Rat (Rattus norvegicus)		
Oral	ATE		1689 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), solvent-dewaxed heavy paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
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	Value determination
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)		

Polysulfides, di-tert-Bu							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Skin	LD_{50}	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		
Oral	LD_{50}	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)		

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.

Amines, C10-C14-tert-alkyl				
Route of exposure	Result	Method	Exposure time	Species
Eye	Causes damage			Rabbit
Skin	Causes damage			Rabbit

Amines, C16-18 and C16-18-unsatd. alkyl				
Route of exposure	Result	Method	Exposure time	Species
Skin	Causes damage	OECD 404		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

Polysulfides, di-tert-Bu				
Route of exposure	Result	Method	Exposure time	Species
Eye	Not irritating	OECD 405		Rabbit
Skin	Slightly irritating	OECD 404		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

Amines, C10-C14-tert-alkyl					
Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	Sensitizing			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)	

Polysulfides, di-tert-Bu					
Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	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.

Amines, C10-C14-tert-alkyl					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 476			Mammals	

Amines, C16-18 and C16-18-unsatd. alkyl					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative				Bacteria (Salmonella typhimurium)	

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	

Polysulfides, di-tert-Bu					
Result	Method	Exposure time	Specific target organ	Species	Sex
Positive	OECD 476			Mammals	
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 473			Human	
Negative	OECD 474			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), 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	

Reproductive toxicity

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

Amines, C10-C14-tert-alkyl						
Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity		OECD 415		Positive	Rat (Rattus norvegicus)	
Effects on fertility		OECD 415		Negative	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 415		Negative	Rat (Rattus norvegicus)	

Amines, C16-18 and C16-18-unsatd. alkyl						
Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity		OECD 421		Positive	Rat (Rattus norvegicus)	
Effects on fertility		OECD 421		Negative	Rat (Rattus norvegicus)	
Developmental 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)	

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

Amines, C10-C14-tert-alkyl							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Skin	NOAEL		OECD 410	20 mg/kg	21/28 days	Rat (Rattus norvegicus)	
Inhalation	NOAEL		OECD 412	19 mg/kg	4 weeks	Rat (Rattus norvegicus)	

Amines, C16-18 and C16-18-unsatd. alkyl							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 407	3.25 mg/kg	28 days	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	

Distillates (petroleum), solvent-refined heavy paraffinic							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation (vapor)	NOAEL			0.15 mg/l	13 weeks	Rat (Rattus norvegicus)	
Inhalation (vapor)	NOAEL			0.22 mg/l	28 days	Rat (Rattus norvegicus)	

Polysulfides, di-tert-Bu							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
	NOAEL	Negative	OECD 407	100 mg/kg		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

Harmful to aquatic life with long lasting effects.

Acute toxicity

Amines, C10-C14-tert-alkyl				
Parameter	Value	Exposure time	Species	Environment
EL_{50}	0.44 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EL_{50}	2.5 mg/l	48 hours	Daphnia (Daphnia magna)	
EL_{50}	63.5 mg/l	30 minutes	Microorganisms (Photobacterium phosphoreum)	
LL_{50}	1.3 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

Amines, C16-18 and C16-18-unsatd. alkyl				
Parameter	Value	Exposure time	Species	Environment
EC_{50}	222.5 mg/l	3 hours	Microorganisms	
EC_{50}	0.12 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EC_{50}	0.46 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EC_{50}	0.011 mg/l	48 hours	Crustaceans	
LC_{50}	0.06 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

Distillates (petroleum), hydrotreated heavy paraffinic				
Parameter	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), solvent-dewaxed heavy paraffinic				
Parameter	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	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)	

Polysulfides, di-tert-Bu				
Parameter	Value	Exposure time	Species	Environment
EC_{50}	>1.89 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EC_{50}	0.255 mg/l	48 hours	Daphnia (Daphnia magna)	

Chronic toxicity

Amines, C10-C14-tert-alkyl				
Parameter	Value	Exposure time	Species	Environment
NOEC	0.078 mg/l	96 days	Fish (Oncorhynchus mykiss)	
NOEL	0.05 mg/l	72 hours	Algae (Selenastrum capricornutum)	

Amines, C16-18 and C16-18-unsatd. alkyl				
Parameter	Value	Exposure time	Species	Environment
EC_{10}	0.029 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
NOEC	0.15 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
NOEC	0.013 mg/l	21 days	Crustaceans (Daphnia magna)	

Distillates (petroleum), hydrotreated heavy paraffinic				
Parameter	Value	Exposure time	Species	Environment
NOEL	>1000 mg/l	28 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)	

Polysulfides, di-tert-Bu				
Parameter	Value	Exposure time	Species	Environment
EC_{10}	0.696 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

Amines, C10-C14-tert-alkyl					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	21.8 %	28 days		Hardly biodegradable

Amines, C16-18 and C16-18-unsatd. alkyl					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	66 %	28 days		Easily biodegradable

Distillates (petroleum), hydrotreated heavy paraffinic					
Parameter	Method	Value	Exposure time	Environment	Result
		2-31 %	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

Polysulfides, di-tert-Bu					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	13 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

Amines, C10-C14-tert-alkyl					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	2.9				

Distillates (petroleum), solvent-refined heavy paraffinic					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	3.9-6				

Polysulfides, di-tert-Bu					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	5.6				
BCF	188				

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.

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

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

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to the immune system, the liver, the gastrointestinal tract through prolonged or repeated exposure.
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

EUH208	Contains Amines, C10-C14-tert-alkyl. May produce an allergic reaction.

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_{10}	Concentration of a substance when it is affected 10% of the population
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
log Kow	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
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
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single 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

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.