

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



A. M. G VENOL Fully Synthetic GL-5 75W-140 LS

Creation date 7th September 2026 Version 1.0

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

- 1.1. Product identifier**
Substance / mixture A. M. G VENOL Fully Synthetic GL-5 75W-140 LS
UFI mixture
Other mixture names WWA0-70N0-X00E-U3DA
EXLINE VRT W140 LS
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Gear oil
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name VENOL MOTOR OIL Spółka z ograniczoną odpowiedzialnością
Address Lodowa 107, Łódź, 93-232
Poland
Phone +48 42 649 15 68
Email venol@venol.pl
Web address venol.de
Competent person responsible for the safety data sheet
Name Laboratorium VENOL MOTOR OIL
Email laboratorium@venol.de
- 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.

Skin Sens. 1, H317
Aquatic Chronic 2, H411

Most serious adverse effects on human health and the environment

May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word

Warning

Hazardous substances

Polysulfides, di-tert-Bu - Polymer

Polysulfides, di-tert-Bu

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Hazard statements

H317

May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P280

Wear protective gloves/protective clothing.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P391

Collect spillage.

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P501

Dispose of contents/container properly labeled waste containers in accordance with national regulations.

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. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

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
Index: 649-483-00-5 CAS: 72623-87-1 EC: 276-738-4 Registration number: 01-2119474889-13-XXXX	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	2.5-5	Asp. Tox. 1, H304	1, 2, 4
Index: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic	2.5-5	not classified as dangerous	1, 4, 5
EC: 961-198-0	Polysulfides, di-tert-Bu - Polymer	1.5-2.5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Specific concentration limit: Skin Sens. 1, H317: C ≥ 6 %	
CAS: 68937-96-2 EC: 273-103-3 Registration number: 01-2119540515-43-XXXX	Polysulfides, di-tert-Bu	1.5-2.5	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic	0.5-1	not classified as dangerous	1, 4, 5
Index: 649-474-00-6 CAS: 64742-65-0 EC: 265-169-7 Registration number: 01-2119471299-27-XXXX	Distillates (petroleum), solvent-dewaxed heavy paraffinic	0.5-1	Asp. Tox. 1, H304	1, 4, 5
EC: 931-384-6 Registration number: 01-2119493620-38-XXXX	Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	0.3-0.5	Acute Tox. 4, H302 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: ATE Oral = 2000 mg/kg bw Eye Irrit. 2, H319: C ≥ 50 % Aquatic Chronic 2, H411: C ≥ 16.1 %	4
EC: 947-129-7 Registration number: 01-2120759337-45-XXXX	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates	0.3-0.5	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	
CAS: 1213789-63-9 EC: 627-034-4 Registration number: 01-2119473797-19-XXXX	Amines, C16-18 and C16-18-unsatd. alkyl	0.1-<0.25	Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 649-468-00-3 CAS: 64742-55-8 EC: 265-158-7 Registration number: 01-2119487077-29-XXXX	Distillates (petroleum), hydrotreated light paraffinic	0-0.24	Asp. Tox. 1, H304	1, 3, 4, 5
Index: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic	0-0.24	Asp. Tox. 1, H304	1, 4, 5
Index: 649-474-00-6 CAS: 64742-65-0 EC: 265-169-7 Registration number: 01-2119471299-27-XXXX	Distillates (petroleum), solvent-dewaxed heavy paraffinic	0-0.24	Asp. Tox. 1, H304	1, 4, 5
Index: 649-469-00-9 CAS: 64742-56-9 EC: 265-159-2 Registration number: 01-2119480132-48-XXXX	Distillates (petroleum), solvent-dewaxed light paraffinic	0-0.24	not classified as dangerous	1, 4

Notes

- Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.*
- A substance for which exposure limits are set.*
- The use of the substance is restricted by Annex XVII of REACH Regulation*
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.*
- Fulfilled Note L*

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

In the case of high concentration of vapors, the product may cause headaches, dizziness, balance disorders, symptoms similar to those after ingestion.

If on skin

Redness, itching, rash, irritation, drying, cracking and chronic inflammation of the skin in case of repeated or long-term contact.

If in eyes

Redness, tearing, burning, irritation.

If swallowed

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Decision on the method of the helping procedure shall be made by a physician after a thorough assessment of the victim's condition.

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

Wear general protective equipment, typical in case of fire. Do not stay in the fire-endangered area without appropriate chemical-resistant clothing and self-contained breathing apparatus. Flammable liquid and vapor. Cool endangered tanks with water spray from a safe distance. Collect used extinguishing agents. Prevent them from entering surface water, groundwater, or soil.

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. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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. Prevent contact with skin and eyes. 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. Protect against frost. Protect from sunlight.

Storage temperature

min 5 °C, max 35 °C

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.

European Union

Directive (EU) 2024/869 of the European Parliament and of the Council

Substance name (component)	Type	Value
Lubricating oils (petroleum), C20–50, hydrotreated neutral oil–based (CAS: 72623–87–1)	OEL 8 hours	5 mg/m ³

DNEL

Amines, C16-18 and C16-18-unsatd. alkyl

Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	0.09 mg/kg	Chronic effects systemic

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Amines, C16-18 and C16-18-unsatd. alkyl

Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	0.38 mg/m ³	Chronic effects systemic
Consumers	Oral	0.04 mg/kg	Chronic effects systemic

Distillates (petroleum), hydrotreated heavy paraffinic

Workers / consumers	Route of exposure	Value	Effect
Consumers	Inhalation	1.2 mg/m ³	Chronic effects local
Consumers	Inhalation	1.2 mg/m ³	Chronic effects local
Workers	Inhalation	2.7 mg/m ³	Chronic effects systemic
Workers	Inhalation	5.4 mg/m ³	Chronic effects local
Consumers	Inhalation	1.2 mg/m ³	Chronic effects local
Consumers	Oral	0.74 mg/kg	Chronic effects systemic
	Dermal	1.0 mg/kg	Chronic effects systemic

Polysulfides, di-tert-Bu

Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	4.67 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	1.67 mg/kg bw/day	Chronic effects systemic

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	8.56 mg/m ³	Chronic effects systemic
Workers	Dermal	12.5 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	2.2 mg/m ³	Chronic effects systemic
Consumers	Dermal	6.25 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	0.25 mg/kg bw/day	Chronic effects systemic

PNEC

Amines, C16-18 and C16-18-unsatd. alkyl

Route of exposure	Value
Drinking water	0.00026 mg/l
Marine water	0.000026 mg/kg
Microorganisms in sewage treatment	0.55 mg/l
Freshwater sediment	0.1794 mg/kg
Sea sediments	0.01794 mg/kg
Soil (agricultural)	10 mg/kg

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Value
Oral	9.33 mg/kg

Polysulfides, di-tert-Bu

Route of exposure	Value
Drinking water	0.24 µg/l

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8.2. Exposure controls

Take off contaminated clothing and wash before reuse. 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. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	data not available
Odour	characteristic of petroleum products
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	190 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	184 mm ² /s at 40 °C
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0.859 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use and storage.

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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

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

A. M. G VENOL Fully Synthetic GL-5 75W-140 LS							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		251250 mg/kg				Calculation of value

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)		
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		

Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀		>2000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD ₅₀		>5000 mg/kg				

Distillates (petroleum), hydrotreated heavy paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀		5000 mg/kg		Rat (Rattus norvegicus)		
Skin	LD ₅₀		>5000 mg/kg		Rabbit		
Inhalation	LC ₅₀		>5 mg/l		Rat (Rattus norvegicus)		
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit		
Inhalation	LD ₅₀	OECD 403	5.53 mg/l	4 hours	Rat (Rattus norvegicus)		

Distillates (petroleum), hydrotreated light paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC ₅₀		3900 mg/m ³	4 hours	Rat (Rattus norvegicus)		

Distillates (petroleum), solvent-dewaxed heavy paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD ₅₀		>5000 mg/kg		Rabbit		
	LC ₅₀		>5 mg/l				
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD ₅₀		>5000 mg/kg		Rabbit		
	LC ₅₀		>5 mg/l				

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Distillates (petroleum), solvent-dewaxed light paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC ₅₀	OECD 403	>2.18 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)		

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

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

Polysulfides, di-tert-Bu

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)		

Polysulfides, di-tert-Bu - Polymer

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)		

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 401	2000 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		Rabbit		
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)		
Oral	ATE		2000 mg/kg bw				

Skin corrosion/irritation

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

Polysulfides, di-tert-Bu - Polymer

Route of exposure	Result	Method	Exposure time	Species
Dermal	Slightly irritating	OECD 404		Rabbit

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating	OECD 405		Rabbit

Serious eye damage/irritation

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

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Respiratory or skin sensitisation

May cause an allergic skin reaction.

Sensitization

Polysulfides, di-tert-Bu - Polymer					
Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	

Germ cell mutagenicity

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

Polysulfides, di-tert-Bu - Polymer					
Result	Method	Exposure time	Specific target organ	Species	Sex
Positive	OECD 476			Mammals	

Carcinogenicity

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

Reproductive toxicity

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

Amines, C16-18 and C16-18-unsatd. alkyl						
Effect	Parameter	Method	Value	Result	Species	Sex
Effects on fertility	NOAEL	OECD 421	12.5 mg/kg		Rat (Rattus norvegicus)	

Polysulfides, di-tert-Bu - Polymer						
Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity		OECD 421		Positive	Rat (Rattus norvegicus)	

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity		OECD 421		Positive	Rat (Rattus norvegicus)	

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

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

Amines, C16-18 and C16-18-unsatd. alkyl						
Route of exposure	Parameter	Method	Value	Result	Species	Sex
Oral	NOAEL	OECD 407	3.25 mg/kg/24h		Rat (Rattus norvegicus)	

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Repeated dose toxicity

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 408	125 mg/kg		Rat (Rattus norvegicus)	
Skin	NOAEL		OECD 410	1000 mg/kg		Rabbit	
Inhalation (vapor)	NOAEL		OECD 412	980 mg/m ³	4 weeks	Rat (Rattus norvegicus)	

Polysulfides, di-tert-Bu							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL			100 mg/kg	28 days	Rat (Rattus norvegicus)	

Polysulfides, di-tert-Bu - Polymer							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 407	100 mg/kg		Rat (Rattus norvegicus)	

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

Amines, C16-18 and C16-18-unsatd. alkyl					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		0.06 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	OECD 202	0.98 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	OECD 201	0.46 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates					
Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀		>100 mg/l	3 hours	Microorganisms	
EL ₅₀		0.028 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EL ₅₀		0.071 mg/l	48 hours	Daphnia (Daphnia magna)	
LL ₅₀		>0.028 mg/kg	96 hours	Fish (Oncorhynchus mykiss)	

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Distillates (petroleum), hydrotreated light paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		5000 mg/kg	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀		1000 mg/kg	48 hours	Daphnia (Daphnia magna)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀		100 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀		>1000 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀		>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
LL ₅₀		100 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀		>1000 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀		>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Distillates (petroleum), solvent-dewaxed light paraffinic

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

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

Polysulfides, di-tert-Bu

Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀		0.838 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₅₀		0.24 mg/l	48 hours	Daphnia (Daphnia magna)	
LC ₅₀		>0.088 mg/l	96 hours	Fish (Danio rerio)	
NOEC		45.1 mg/l	28 days	Microorganisms (Photobacterium phosphoreum)	

Polysulfides, di-tert-Bu - Polymer

Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀		0.838 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₅₀		0.24 mg/l	48 hours	Daphnia (Danio rerio)	
LC ₅₀		>0.088 mg/l	96 hours	Fish (Danio rerio)	
NOEC		45.1 mg/l	28 days	Aquatic microorganisms	

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Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Parameter	Method	Value	Exposure time	Species	Environment
EL ₅₀		15 mg/l	96 hours	Algae (Raphidocelis subcapitata)	
EL ₅₀		91.4 mg/l	48 hours	Crustaceans (Daphnia magna)	
LL ₅₀		24 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

Chronic toxicity

Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates

Parameter	Value	Exposure time	Species	Environment
EL ₁₀	0.025 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Value	Exposure time	Species	Environment
NOEC	>1000 mg/l	28 days	Fish (Oncorhynchus mykiss)	
NOEC	100 mg/l	21 days	Crustaceans (Daphnia magna)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic

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

Distillates (petroleum), solvent-dewaxed light 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	Fish (Oncorhynchus mykiss)	

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

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

Polysulfides, di-tert-Bu

Parameter	Value	Exposure time	Species	Environment
EC ₁₀	0.04 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

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Polysulfides, di-tert-Bu - Polymer				
Parameter	Value	Exposure time	Species	Environment
EC ₁₀	0.04 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
Parameter	Value	Exposure time	Species	Environment
EL ₁₀	2.8 mg/l	96 hours	Algae (Raphidocelis subcapitata)	
NOEL	0.12 mg/l	21 days	Crustaceans (Daphnia magna)	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

Amines, C16-18 and C16-18-unsatd. alkyl					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	60 %	28 days		Easily biodegradable
	OECD 301D	44 %	28 days		Easily biodegradable

Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	75 %	28 days		Easily biodegradable

Distillates (petroleum), hydrotreated heavy paraffinic					
Parameter	Method	Value	Exposure time	Environment	Result
		31.13 %	21 days		

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

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	25 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

Amines, C16-18 and C16-18-unsatd. alkyl	
Parameter	Value
BCF	>500

Polysulfides, di-tert-Bu	
Parameter	Value
Log Pow	5.6

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Polysulfides, di-tert-Bu - Polymer	
Parameter	Value
Log Pow	5.6

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

The mixture has been classified as not posing a threat to the ozone layer. Product with low volatility. Hydrocarbons contained in the product have a low tendency to escape into the atmosphere. The product does not dissolve in water. It accumulates on the water surface and forms a layer that hinders oxygen exchange. Hydrocarbons with higher molecular weight may sediment.

Water hazard class: WGK 2 (own assessment).

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. 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. Perfectly cleaned containers can be submitted for recycling. The waste code should be given at the place of its production.

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.

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).

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

Distillates (petroleum), hydrotreated light paraffinic

Restriction	Conditions of restriction
28	1. 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”. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) 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); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) 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. (f) devices covered by Regulation (EU) 2017/745.

15.2. Chemical safety assessment

Chemical safety assessment for the mixture is not required.

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.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.
H411	Toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container properly labeled waste containers in accordance with national regulations.

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

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
ATE	Acute toxicity estimate

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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 ₁₀	Effective Loading for 10 % of the tested organisms		
EL ₅₀	Effective Loading for 50 % of the tested organisms		
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods		
EU	European Union		
EuPCS	European Product Categorisation System		
Eye Irrit.	Eye irritation		
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 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		
PMT	Persistent, mobile and toxic		
ppm	Parts per million		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail		
Skin Corr.	Skin corrosion		
Skin Sens.	Skin sensitization		
STOT RE	Specific target organ toxicity - repeated exposure		
STOT SE	Specific target organ toxicity - single exposure		
UN number	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		
vPvM	Very persistent and very mobile		

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.

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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.