

SAFETY DATA SHEET

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



A. M. G. VENOL FULLY SYNTHETIC LONG LIFE SP/SP RC/SN 0W20

Creation date 7th September 2026 Version 1.0

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

- 1.1. Product identifier** A. M. G. VENOL FULLY SYNTHETIC LONG LIFE SP/SP RC/SN 0W20
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Engine 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 not classified as dangerous according to Regulation (EC) No 1272/2008.
- 2.2. Label elements**
Signal word
none
Supplemental information
EUH208 Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. 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**
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
CAS: 68037-01-4 EC: 500-183-1 Registration number: 01-2119486452-34-XXXX	1-Decene, homopolymer, hydrogenated	<71.2	Asp. Tox. 1, H304	2
CAS: 163149-28-8 Registration number: 01-2119543695-30-XXXX	1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	<71.2	Asp. Tox. 1, H304	2
CAS: 151006-60-9 EC: 436-190-0 Registration number: 01-2119523580-47-XXXX	1-Dodecene, polymer with 1-decene, hydrogenated	<71.2	Asp. Tox. 1, H304	2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic	5-<10.32	Asp. Tox. 1, H304	1, 2, 3
CAS: 2215-35-2 EC: 218-679-9 Registration number: 01-2119953275-34-XXXX	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	0.52-<1.04	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Specific concentration limit: Eye Dam. 1, H318: C ≥ 10 % Eye Irrit. 2, H319: C ≥ 10 %	
CAS: 36878-20-3 EC: 253-249-4 Registration number: 01-2119488911-28-XXXX	bis(nonylphenyl)amine	0.26-<1.04	Aquatic Chronic 4, H413	
Index: 649-468-00-3 CAS: 64742-55-8 EC: 265-158-7 Registration number: 01-2119487077-29-XXXX	Distillates (petroleum), hydrotreated light paraffinic	<0.32	not classified as dangerous	1, 3
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	<0.32	not classified as dangerous	1, 3
EC: 457-320-2 Registration number: 01-0000019337-66-XXXX	Molybdenum polysulphide long chain alkyl dithiocarbamate complex	0.026-<0.104	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	

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.
- 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

Move the victim to fresh air, keep him warm and calm. Contact a doctor if disturbing symptoms occur.

If on skin

Take off contaminated clothing. Wash contaminated skin with plenty of soap and water, and then rinse with water. In case of disturbing symptoms, consult a doctor. Wash clothes before reuse.

If in eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for at least 15 minutes. with open eyelids. Avoid strong water stream - risk of cornea damage. Consult a doctor if disturbing symptoms occur.

If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor in case of disturbing symptoms.

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4.2. Most important symptoms and effects, both acute and delayed

If inhaled

For a high vapour concentration the product may cause headache and dizziness, irritation of mucus membranes of the respiratory system, during prolonged exposure, aberrations of the central nervous system, movement coordination troubles, confusion, drowsiness, inconscience.

If on skin

For a prolonged contact possible dryness, skin cracking and chronic dermatitis.

If in eyes

Redness, tearing, burning.

If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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. Symptomatic treatment.

More information

Other relevant information is not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foams, water mist, dry agents, CO₂.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

During a fire, carbon monoxide and carbon dioxide may be generated, along with other toxic gases such as hydrogen sulfide, nitrogen oxides, sulfur oxides, phosphorus oxides, and zinc oxides. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

The product is not classified as flammable. Cool containers exposed to fire from a safe distance with a spray of water. Collect used extinguishing media. Do not allow them to enter surface water, ground water and soil. Use general protection measures typical in the event of fire. Do not stay in the fire endangered area without suitable chemical-resistant clothing and a self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel: restrict access of outsiders to the affected area until appropriate decontamination operations have been finished. For large releases insulate the threatened area. Do not inhale vapours and aerosols. Avoid skin and eye contact. Remove all ignition sources, extinguish open fire, do not smoke. Use personal protective equipment. Spilt oil may cause slippery surface. For emergency responders: ensure that the failure and its effects are removed by trained personnel only. Use personal protection. Do not inhale vapours. Avoid skin and eye contact.

6.2. Environmental precautions

Do not dispose to drains, surface and ground water. For release of bigger amounts of the mixture take measures to prevent spreading in the environment. Notify relevant rescue services.

6.3. Methods and material for containment and cleaning up

Place a damaged packaging in a substitute pack. Collect spill with non-flammable materials absorbing liquids (e.g. sand, soil, diatomaceous earth, vermiculite) and place it in closed containers. Treat the collected material as waste. Clean the contaminated place with water and detergent. Do not use sparking tools.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work in accordance with health and safety rules. Do not eat, drink or smoke while working. Avoid eye and skin contact. Do not inhale vapours and aerosols. Wash your hands before a break and after finish of work. Ensure proper ventilation. Remove ignition sources - do not smoke. Do not use sparking tools. Containers not in use keep closed tight. Keep contaminated/soaked clothing away from heat and ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Store only in a cool and well ventilated place. Do not store together with food, groceries and animal feed. Avoid direct sunlight, heat and ignition sources. Do not store together with incompatible substances (see section 10).

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7.3. Specific end use(s)

No information about uses other than those mentioned in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

DNEL

bis(nonylphenyl)amine			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	0.62 mg/kg	Chronic effects systemic
Workers	Inhalation	4.37 mg/m ³	Chronic effects systemic
Consumers	Dermal	0.31 mg/kg	Chronic effects systemic
Consumers	Inhalation	1.09 mg/m ³	Chronic effects systemic
Consumers	Oral	0.31 mg/kg	Chronic effects systemic

Distillates (petroleum), hydrotreated heavy paraffinic			
Workers / consumers	Route of exposure	Value	Effect
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

PNEC

bis(nonylphenyl)amine	
Route of exposure	Value
Drinking water	0.1 mg/l
Marine water	0.01 mg/l
Water (intermittent release)	1 mg/l
Microorganisms in sewage treatment	1 mg/l
Freshwater sediment	132000 mg/kg
Sea sediments	13200 mg/kg
Soil (agricultural)	26300 mg/kg

8.2. Exposure controls

Observe the general rules of safety and hygiene. Do not eat, drink or smoke while working. Wash hands and face thoroughly before breaks and after work. Avoid skin contact. Take off contaminated clothing and wash it before reuse. Do not inhale vapors / mists. Provide general and / or local ventilation in the workplace in order to maintain the concentrations of harmful agents in the air below the established limit values. Topical exhaust is preferred as it removes contaminants from where they originate, preventing them from spreading.

Eye/face protection

Use protective goggles if a risk of splash occurs.

Skin protection

Hand and body protection: it is recommended to use protective gloves made of e.g. perbutyl, viton, butyl rubber. For short-term contact use protective gloves with the protection index 2 or more (breakthrough time > 30 min). For long term contact use protective gloves with the protection index 6 (breakthrough time > 480 min). Use protective clothing.

Material that is used for gloves must be impermeable and resistant to the product action. The material should be selected considering breakthrough times, permeation and degradation rate. In addition, the selection of appropriate gloves does not depend on the material only, but also on other qualitative features and changes depending on the manufacturer. Obtain information on the exact breakthrough time from the manufacturer and observe it.

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Respiratory protection

Not required if there is a proper ventilation. If vapours and aerosols are formed use absorbing or absorbing and filtering equipment with an adequate protection class (class 1/protection against gases or vapours with a volumetric concentration in the air not exceeding 0.1%; class 2/ protection against gases or vapours with a volumetric concentration in the air not exceeding 0.5%; class 3/ protection against gases or vapours with a volumetric concentration in the air up to 1%). If oxygen concentration is . 17% and/or the maximum toxic substance concentration in the air is .1,0 % vol. isolating equipment should be applied.

Thermal hazard

Data not available.

Environmental exposure controls

Avoid discharges to the environment, do not dispose to drains. Possible emissions from ventilation systems and process equipment should be checked for their conformity with the environmental protection law requirements.

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	≥230 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	41.2 mm ² /s at 40 °C 8.1 mm ² /s at 100 °C
Solubility in water	insoluble
Solubility In organic solvents and liquid hydrocarbons	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: viscous

9.2. Other information

Explosive properties	not show
viscosity index: 173 pour point: -55°C	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactive product. Does not undergo hazardous polymerization. See also section 10.3 - 10.5.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

Avoid exposure to direct sunlight, heat and ignition sources.

10.5. Incompatible materials

Avoid contact with strong oxidants.

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

1-Decene, homopolymer, hydrogenated						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LD ₅₀		>5.2 mg/l	4 hours	Rat (Rattus norvegicus)	F/M
Skin	LD ₅₀		>2000 mg/kg		Rat (Rattus norvegicus)	

bis(nonylphenyl)amine						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)	

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

Distillates (petroleum), solvent-dewaxed light paraffinic						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀		>5000 mg/kg		Rabbit	
Inhalation	LC ₅₀		>5.53 mg/l	4 hours		

Zinc O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	2230 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	OECD 402	>25000 mg/kg		Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

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Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Based on the available data the mixture does not meet the criteria for classification.

Acute toxicity

1-Decene, homopolymer, hydrogenated					
Parameter	Method	Value	Exposure time	Species	Environment
LD ₅₀		>1000 mg/l	96 hours	Fish (Salmo gairdneri)	
LD ₅₀		>750 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀		190 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
NOELR		1000 mg/kg	72 hours	Algae (Selenastrum capricornutum)	

bis(nonylphenyl)amine					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Danio rerio)	
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

Distillates (petroleum), solvent-dewaxed light paraffinic					
Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	OECD 202	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	

Molybdenum polysulphide long chain alkyl dithiocarbamate complex					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 203	94.8 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EL ₅₀	OECD 202	50 mg/l	48 hours	Daphnia (Daphnia magna)	
EbC ₅₀	OECD 201	9.62 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

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Molybdenum polysulphide long chain alkyl dithiocarbamate complex

Parameter	Method	Value	Exposure time	Species	Environment
IC ₅₀		>100 mg/l	3 hours	Bacteria	

Zinc O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀	OECD 203	4.5 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
LC ₅₀	OECD 203	46 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EL ₅₀	OECD 202	23 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	OECD 201	21 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

Chronic toxicity

Distillates (petroleum), solvent-dewaxed light paraffinic

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	>10 mg/l	21 days	Daphnia (Daphnia magna)	
NOEC	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

Parameter	Method	Value	Exposure time	Species	Environment
NOEC		100 mg/l	21 days	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

not available

Biodegradability

bis(nonylphenyl)amine

Parameter	Method	Value	Exposure time	Environment	Result
		1 %	28 days	Activated sludge	Hardly biodegradable

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301	22.75 %	29 days		Hardly biodegradable

Zinc O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	1.5 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Data not available.

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

Parameter	Method	Value	Temperature [°C]	Value determination
BCF	OECD 305	88	25°C	Read-across approach

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Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Parameter	Method	Value	Temperature [°C]	Value determination
Log Pow		2.21		

12.4. Mobility in soil

The product does not dissolve in water. The mobility of substances / components of the mixture depends on their hydrophilic and hydrophobic properties as well as abiotic and biotic conditions of the soil, including its structure, climatic conditions, season of the year and soil organisms.

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

The mixture is not classified as hazardous to the ozone layer. The product has low volatility. The hydrocarbon components of the product show a low tendency to migrate into the atmosphere. The product is insoluble in water. It accumulates on the water surface, forming a layer that hinders oxygen exchange. Higher molecular weight hydrocarbons may undergo sedimentation in water.

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. 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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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

EUH208	Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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	Agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL 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 Dam.	Serious eye damage
Eye Irrit.	Eye irritation
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
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 K _{ow}	Octanol-water partition coefficient
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
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

SAFETY DATA SHEET



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

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Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
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.

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.