

SAFETY DATA SHEET

Complies with Regulation 1907/2006 of the European Parliament and of the Council (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Engine oil GOODYEAR MARINE 4012

Version: 01

Revision: 18.06.2024

The date of the previous version: -

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

1.1. Product identifier

Trade name:

GOODYEAR MARINE 4012

UFI:

Not applicable. Considering the mixture's effect on health and its physical hazards, the mixture is not classified as dangerous, and in accordance with Article 45 of the CLP (1272/2008) Regulation and Annex VIII, 3.1. point, it does not need to be reported to the toxicology center of the European Chemicals Agency (ECHA).

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

Relevant identified uses:

Motor oil (engine oil, marine/ship oil)

For consumer/professional use.

Uses advised against:

Do not use for food.

1.3. Details of the supplier of the safety data sheet

Manufacturer in the EU (supplier of the safety data sheet):

CHEMISPEC Ltd.

Legal address: Robezu 7, Ventspils, LV-3601, Latvia

Manufacturing address: Straumes 14, Tukums, LV-3104, Latvia.

Phone: +371 29473720

WEB page: <https://goodyearoilbaltics.com/>

E-mail of the competent person responsible for safety data sheets:
nk@chemispec.com

1.4. Emergency telephone number

EU:112

Emergency telephone for other regions to be filled out by local business.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition:

Mixture

Classification according to regulation (EC) No 1272/2008:

Not classified (Additional phrase EUH208 applies).

2.2. Label elements

According to regulation (EC) No 1272/2008:

Pictograms:

Not applicable.

Signal word:

Not applicable.

Hazard statements:

EUH208 Contains Long chain alkyl thio carbamide metal complex. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

Hazardous substances:

Not applicable.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to in accordance with local/national regulation.

Supplemental label elements:

Not applicable.

Annex XVII – restrictions on production, placing on the market and use of certain hazardous substances, mixtures and products

None.

Specific requirements for retail packaging:

Child-resistant packaging: Not applicable.

Tactile hazard warning symbol (Δ) Not applicable.

Labeling exemptions for packaging <125 ml:

Not applicable.

2.3. Other hazards

2.3.1. Other hazards not related to classification

Individuals with a history of skin sensitization problems should use this product with caution.

2.3.2. Information on PBT and vPvB substances

The product does not meet the PBT and vPvB criteria according to Annex XIII of the REACH Regulation (Regulation (EC) No. 1907/2006).

2.3.3. Endocrine disrupting properties

Toxicological/ecological information: Based on the available data, the product does not contain ingredients that according to REACH Article 57(f) or Commission Delegated Regulation (EU) no. 2017/2100 or Commission Regulation (EU) no. 2018/605 are considered substances with endocrine disrupting properties, in a concentration of 0.1% or more.

Information on effects on health and possible symptoms is given in section 11.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name of the substance	Identifier	Conc. (%)	Classification according to regulation 1272/2008/EC (CLP)	Type
Distillates (petroleum), hydrotreated heavy paraffinic Base oil - unspecified	CAS no.: 64742-54-7 EC no.: 265-157-1 Index no.: 649-467-00-8 REACH reg.: 01-2119484627-25	<82,1	Carc. 1B, H350 ^{Note L}	[1] [2]
Distillates (petroleum), solvent-dewaxed heavy paraffinic Base oil - unspecified	CAS no.: 64742-65-0 EC no.: 265-169-7 Index no.: 649-474-00-6 REACH reg.: 01-2119471299-27	0,24-2,4	Carc. 1B, H350 ^{Note L}	[1] [2]

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Distillates (petroleum), solvent-refined light paraffinic Base oil - unspecified	CAS no.: 64741-89-5 EC no.: 265-091-3 Index no.: 649-455-00-2 REACH reg.: 01-2119487067-30	0,9-1,8	Carc. 1B, H350 ^{Note L}	[1] [2]
Distillates (petroleum), hydrotreated light paraffinic Base oil - unspecified	CAS no.: 64742-55-8 EC no.: 265-158-7 Index no.: 649-468-00-3 REACH reg.: 01-2119487077-29	0,9-1,8	Carc. 1B, H350 ^{Note L}	[1] [2]
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	CAS no.: 93819-94-4 EC no.: 298-577-9 Index no.: - REACH reg.: 01-2119543726-33	0,9-1,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 <u>Specific concentration limit values, M-factors:</u> Eye Irrit. 2; : 10 % < C ≤ 12.5% Skin Irrit. 2; : 6.25 % ≤ C ≤ 100% Eye Dam. 1; : 12.5 % < C ≤ 100%	[1]
Distillates (petroleum), solvent-dewaxed light paraffinic Base oil - unspecified	CAS no.: 64742-56-9 EC no.: 265-159-2 Index no.: 649-469-00-9 REACH reg.: 01-2119480132-48	0,15-1,5	Carc. 1B, H350 ^{Note L}	[1] [2]
Paraffin oils (petroleum), catalytic dewaxed heavy Base oil - unspecified	CAS no.: 64742-70-7 EC no.: 265-174-4 Index no.: 649-477-00-2 REACH reg.: 01-2119487080-42	0,15-1,5	Carc. 1B, H350 ^{Note L}	[1] [2]
Long chain alkyl thio carbamide metal complex	CAS no.: - EC no.: 457-320-2 Index no.: - REACH reg.: 01-0000019337-66	0,03-0,15	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]

The mixture does not contain ingredients that, according to the supplier's current knowledge and concentration of substances, could pose a risk to health or the environment, and there are no PBT and vPvB substances or substances of similar concern, or substances with an occupational exposure limit value, and therefore should be listed in this section.

Abbreviations and explanations of H-phrases are given in section 16.

Occupational exposure limits (if established) are given in section 8.

Types:

- [1] substances hazardous to the environment or health;
- [2] substances with an occupational exposure limit value;
- [3] PBT-substances according to (EC) no. 1907/2006, for Annex XIII;
- [4] vPvB substances. according to (EC) no. 1907/2006, for Annex XIII.
- [5] The substance is included in the SEVESO Directive.

Note on REACH Registration: All ingredients have been REACH registered by the manufacturer or supplier.

* **Note L** - A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.

SECTION 4: First aid measures

4.1. Description of first aid measures

General:	Spilled product makes surfaces slippery.
Inhalation:	Move the victim to fresh air, keep him calm. If the victim's breathing stops or it is irregular, perform artificial respiration or administer oxygen. Only trained personnel may do this. Mouth-to-mouth breathing can be dangerous for the rescuer. If the victim is unconscious, place in the recovery position and seek medical help immediately. Maintain an open airways.
Skin contact:	Remove contaminated clothing immediately. Wash affected skin with plenty of soap and water for 10 to 15 minutes. If symptoms are observed, seek medical attention.

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Eye contact:	Immediately flush eyes with plenty of water (or 0.9% normal saline if available) by lifting the upper and lower eyelids. Check that the contact lenses are removed. Continue rinsing for at least 15 minutes. If symptoms are observed, seek medical attention.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor immediately. DO NOT induce vomiting. If vomiting starts, tilt the victim's head downwards so that the vomited masses do not enter the respiratory tract. Do not give anything by mouth to an unconscious patient.

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

Inhalation:	Inhalation at ambient temperatures is unlikely due to the low vapor pressure of the main components. Inhalation may cause respiratory and nasal cavity irritation. Adverse symptoms may include the following: nasal cavity irritation, respiratory tract irritation, cough.
Skin contact:	May cause mild skin irritation or skin sensitization. Adverse symptoms may include the following: irritating feeling, redness, swelling, rash.
Eye contact:	May cause eye irritation. Adverse symptoms may include the following: irritating feeling, redness, tearing.
Ingestion:	There is an aspiration hazard; can be fatal if inhaled if swallowed.

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

Notes to physician Treat symptomatically.

Information on effects on health and possible symptoms is given in section 11.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Foam (specially trained personnel only); water mist (specially trained personnel only); dry chemical powder; carbon dioxide; sand or earth.
Unsuitable extinguishing media:	Do not use a full power water jet. The simultaneous use of foam and water on the same surface should be avoided, as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Risk of explosion if sealed package is heated. In the event of a fire, if heated, pressure will increase and the package may explode.
Combustion products may contain the following substances: A complex mixture of airborne solid and liquid particles and gases may be formed, including carbon dioxide, carbon monoxide and unidentified organic and inorganic compounds.

5.3. Advice for firefighters

Protective equipment for firefighters,	Demarcate the area and evacuate bystanders from the fire zone. Do not involve untrained or personnel without protective equipment in firefighting. Fire-fighting water contaminated with this material must be contained and collected, and must be prevented from entering water bodies, sewers or drains.
Special firefighting procedures:	Firefighters must wear appropriate protective equipment and full-face self-contained breathing apparatus (SCBA) operating under increased pressure. Clothing for

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firefighters (including helmets, safety shoes and gloves) must comply with the European standard EN 469 "Protective clothing for firefighters. Performance requirements for protective clothing for firefighters" and must provide at least a basic level of protection against chemical spills.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Spilled product makes surfaces slippery.

Stop or contain the spill if it is safe to do so. Avoid direct contact with spilled material. Do not touch or walk through spilled product. Avoid inhalation of vapors and mists. Do not involve untrained or without protective equipment persons in handling the spill. Evacuate personnel from surrounded areas. Do not allow access to area untrained or personnel without protective equipment. It is recommended to eliminate all sources of ignition (e.g., electricity, sparks, fires, flares), if it is possible to do so in a safe manner. Ensure adequate ventilation. If ventilation is inadequate, wear an appropriate respirator. Put on suitable personal protective equipment.

6.1.2. For emergency responders:

If special protective equipment is required to collect spills, refer to Section 8 for suitable and unsuitable materials. Also read the information in section 8, about hygiene requirements.

6.2. Environmental precautions

Do not allow product to enter drains. If the product has caused environmental pollution (sewers, water bodies, soil or air), report to the appropriate government authorities.

6.3. Methods and material for containment and cleaning up

Leakage to soil:

Do not allow the product to enter sewers, rivers, waterways or other water bodies. If necessary, cover the product with dry earth, sand or similar non-combustible materials. If it is safe to do so, cover large spills carefully with foam to limit the risk of fire. Do not use a direct jet. Provide adequate ventilation indoors or in enclosed areas. Absorb spilled product with suitable non-flammable materials. Collect the loose product by suitable means. Place collected product and other contaminated materials in suitable receptacles or containers for recycling, recovery or safe disposal. In case of soil contamination, remove the contaminated soil layer for remediation or disposal in accordance with local regulations.

Spills into waterways or the sea:

For small spills in confined waters (i.e. harbors), contain the product with floating barriers or other equipment. Collect the spilled product by absorbing with special floating absorbents. Where practicable, large spills into open water should be contained by floating barriers or other mechanical means. If this is not possible, control the spread of the spill and collect the product using skimmers (oil skimmers) or other suitable mechanical means. The use of dispersants must be determined by an expert and, if necessary, approved by local authorities. Collect the recovered product and other contaminated materials in suitable tanks or containers for recovery or safe disposal.

Note:

Recommended measures are based on the most likely release scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) can significantly influence the selection of appropriate actions. For this reason, experts should be consulted when necessary. Local/national regulations may also determine, influence or limit the actions to be taken.

6.4. Reference to other sections

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See Section 1 for emergency contact information.
See section 8 for suitable protective equipment.
See section 13 for waste management information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:

Get special instructions before use. Use and store only outdoors or in a well-ventilated area. If ventilation is insufficient, use an appropriate respirator. Avoid contact with the product (Avoid contact with eyes, skin and clothes). Avoid inhalation of vapors or mist. Beware of swallowing. Eliminate the risk of slipping. Put on suitable personal protective equipment (see section 8) if necessary. Store in original packaging or approved alternative packaging made of compatible material. Keep tightly closed until use. Do not reuse the packaging. Avoid exposure to the environment.

Protective measures against fire and explosion:

It is recommended to keep away from sparks/open flames/hot surfaces. - Smoking is prohibited. Use and store only outdoors or in a well-ventilated area. Take precautions against static electricity.

Advice on general occupational hygiene:

Eating, drinking and smoking are not allowed in the areas of product use, storage and production. Employees must wash their hands and face before eating, drinking and smoking. Remove soiled clothing before entering dining areas. See section 8 for hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Store in accordance with local legislation (storage area layout, container construction, equipment and operating procedures must comply with relevant European, national or local legislation). Store in a locked and approved storage room. Storage facilities should be designed with adequate walls to prevent soil and water contamination in the event of a spill. Cleaning, inspection and maintenance of the internal structure of storage tanks should only be performed by properly equipped and qualified personnel as required by national, local or company regulations. Store in the original packaging, in a cool, well-ventilated place, protected from direct sunlight. Do not store with incompatible substances (see section 10), food and beverage. Store away from heat and ignition sources. Store away from oxidizers. Keep the package tightly closed until use. Open packages must be tightly closed and kept upright to prevent leakage. Do not store in unlabeled packaging. Use appropriate packaging to avoid environmental contamination.

7.3. Specific end use(s)

Recommendations:

Synthetic motor oil.
For consumer / professional use.

Solutions for manufacturers:

Information not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL):

Limit values are set throughout the EU, but each Member State sets its own OELs, which often exceed those set by EU legislation (IOELVs). OELs are determined by national competent authorities or other appropriate institutions.

EU: Indicative occupational exposure limit values (IOELV):

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Name of the substance	Value 8 h exposure		Value short term exposure	
	OEL mg/m ³ (8 h)	OEL ppm (ml/m ³) (8 h)	OEL mg/m ³ (15 min)	OEL mg/m ³ (8 h)
No values are given for any of the components.	-	-	-	-

Latvia (AER, MK reg. Nr.325):

Name of the substance	Value 8 h exposure		Value short term exposure	
	OEL mg/m ³ (8 h)	OEL ppm (ml/m ³) (8 h)	AER mg/m ³ (15 min)	OEL mg/m ³ (8 h)
Mineral oil	5	-	-	-

Recommended monitoring Procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy), as well as national guidance documents for methods for the determination of hazardous substances.

8.2. Exposure controls

Appropriate engineering controls:

Use only with adequate ventilation. If dust, fumes, gas, vapors or mist are generated as a result of the handling the product, use process containment, fume hood or other devices to keep air pollution below recommended limits for occupational environment or the limit values determined in regulatory acts. It is also necessary to use engineering equipment to ensure the concentration of gas, vapor or dust below the explosive limits.

Individual protection measures, such as personal protective equipment:

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and after work. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses must meet approved standards and have to be used when a risk assessment indicates the necessity to wear them to avoid liquid splashes, mist or dust. If contact with the substance is expected, use the above-mentioned protective means, except if the risk assessment indicates the need for a higher level of protection: goggles or a face shield against splashes of chemical products. If there is a risk of inhaling the product, it is necessary to use a full face mask with an appropriate filter.

Skin protection

Hand protection

Chemically resistant, impervious gloves of approved standards must be worn throughout handling of the product if a risk assessment indicates the need for them. During use, check that the gloves still provide the level of protection specified by the manufacturer. It should be noted that the durability of gloves of the same material may vary from manufacturer to manufacturer. If you work with mixtures containing different substances, it is impossible to calculate the level of glove resistance with absolute accuracy.

Penetration level 6, permeation level 3, according to EN 374, taking into account the concentration of chemicals specified in section 3.

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Use protective gloves made of butyl, PVC and neoprene rubber.

Body protection

Personal protective equipment must be selected based on the work tasks and the risk assessment of the working environment, approved by the appropriate specialist.

Other

Appropriate protective footwear and any other skin protection must be selected prior to product use based on work tasks and a risk assessment of the work environment, approved by an appropriate specialist.

Respiratory protection

In case of insufficient ventilation, it is necessary to use a suitable personal respiratory protection device.

Use tight-fitting, air-purifying or air-suppressing respirators in accordance with the applicable standard when a risk assessment dictates this. The choice of respirator should be based on the known or expected level of occupational exposure, product risks, limitations of the respirator's safe operation.

Environmental exposure controls

Emissions from ventilation or processing equipment must be controlled to ensure compliance with environmental protection legislation. In some cases, it will be necessary to use emission collectors, filters, or make technical modifications to treatment equipment to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Viscous liquid.
Colour	Light brown to brown.
Odour	Amber (light brown).
Melting point/freezing point	- 60°C to 0 °C (data for the main component).
Boiling point or initial boiling point and boiling range	200°C to 800 °C (data for the main component).
Flammability	According to available information, the product is not flammable.
Lower and upper explosion limit	Not available.
Flash point	>= 98 - <= 344 °C (@ ~ 101.325 kPa) (data for the main component).
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	Water: 2.69E-12 - 2000 mg/L ((Q)SAR data for main ingredient).
Partition coefficient n-octanol/water (log value)	Not available.
Vapour pressure	<0.1 hPa at 20 °C (main component data).
Density and/or relative density	0,8-1,0 g/cm3
Relative vapour density	Not available.
Particle characteristics	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Flammable liquids	Not available.
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9.2.2. Other safety characteristics

Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

There is no known exposure according to our database.

10.2. Chemical stability

Does not cause significant stability concerns.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions of storage and use.

10.4. Conditions to avoid

Heat, flames and other sources of ignition.

10.5. Incompatible materials

Reactive or incompatible materials: oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products should not form under normal conditions of storage and use.

SECTION 11: Toxicological information

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

Acute toxicity:

Information about the product or its ingredients:

Product/substance name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy paraffinic Base oil - unspecified	LD ₅₀ Oral	rat	> 5000 mg/kg bw	-
	LC ₅₀ inhalation: aerosol	rat	5,53 mg/L air	4 h
	LD ₅₀ Dermal	Mouse	> 5000 mg/kg bw	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic Base oil - unspecified	LD ₅₀ Oral	rat	> 5000 mg/kg bw	-
	LC ₅₀ inhalation: aerosol	rat	> 5,3 mg/L air	4 h
	LD ₅₀ Dermal	rabbit	> 5000 mg/kg bw	-
Distillates (petroleum), solvent-refined light paraffinic Base oil - unspecified	LD ₅₀ Oral	rat	> 5000 mg/kg bw.	-
	LC ₅₀ inhalation: aerosol	rat	> 5 mg/L air	4 h
	LD ₅₀ Dermal	rabbit	> 5000 mg/kg bw	-
Distillates (petroleum), hydrotreated light paraffinic	LD ₅₀ Oral	rat	> 5000 mg/kg bw	-
	LC ₅₀ inhalation: aerosol	rat	> 5,53 mg/L air	4 h

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Base oil - unspecified	LD ₅₀ Dermal	rabbit	> 5000 mg/kg bw	-
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	LD ₅₀ Oral	rat	2 600 mg/kg bw	-
	LC ₅₀ inhalation	rat	> 2 mg/L gaiss (nominal)	1 h
	LD ₅₀ Dermal	rabbit	> 3 160 mg/kg bw	-
Distillates (petroleum), solvent-dewaxed light paraffinic Base oil - unspecified	LD ₅₀ Oral	rat	> 5000 mg/kg bw	-
	LC ₅₀ inhalation: aerosol	rat	> 5,53 mg/L air	4 h
	LD ₅₀ Dermal	rabbit	> 5000 mg/kg bw	-
Paraffin oils (petroleum), catalytic dewaxed heavy Base oil - unspecified	LD ₅₀ Oral	rat	> 5000 mg/kg bw	-
	LC ₅₀ inhalation: aerosol	rat	> 5,53 mg/L air	4 h
	LD ₅₀ Dermal	rabbit	> 5000 mg/kg bw	-
Long chain alkyl thio carbamide metal complex	LD ₅₀ Oral	rat	> 2 000 mg/kg bw.	-
	LD ₅₀ Dermal	rat	> 5000 mg/kg bw	-

Conclusion/Summary: Based on available data, the classification criteria are not met.

Skin corrosion/irritation;

Information about the product or its ingredients:

Product/substance name	Effect				
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	Interpretation of results: Category 2 (eye irritant) based on GHS Species: Guinea pig. Amount used: 0.5 ml Treatment/exposure duration: 4 h Observation time: 24 h and 72 h Guidelines: OECD Guideline 404 (Acute Skin Irritation/Acute Skin Corrosion)				
	Irritation score	Exposure	Score	Max. score	Reversibility
	Erythema score	24/72 h	1,4-2,83	4	Not fully reversible: Within 72 h
	Edema score	24/72 h	0,08-1,7	4	Not fully reversible: Within 72 h
	Primary dermal irritation index (PDII)	24/72 h	1,5-4,25	8	Not fully reversible: Within 72 h
Long chain alkyl thio carbamide metal complex	Interpretation of results: Category 2 (eye irritant) based on GHS Species: Rabbit. Amount used: 0.5 ml Treatment/exposure duration: 4 h Observation time: 14 days Guidelines: OECD Guideline 404 (Acute Skin Irritation/Acute Skin Corrosion)				
	Irritation score	Exposure	Score	Max. score	Reversibility
	Erythema score	24/48/72 h	2,2-3,3	4	Not fully reversible: Within 14 days
	Erythema score	24/48/72 h	1,7	4	Fully reversible: within 10 days
	Edema score	24/48/72 h	1	4	Fully reversible: within 14 days
	Primary dermal irritation index (PDII)	24/48/72 h	3,2	8	Not fully reversible: Within 72 h

Conclusion/Summary: Based on available data, the classification criteria are not met.

Serious eye damage/irritation;

Information about the product or its ingredients:

Product/substance name	Effect
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Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	Interpretation of results: Category 1 (corrosive to eyes) Species: Rabbit Amount used: 0.1 mL Duration of treatment/exposure: Single exposure Observation time: 1, 4, 24, 48 and 72 h, as well as 4, 7 and 14 days Guidance: 16 CFR 1500.42usis			
	Irritation score	Exposure	Result	Total result
	Overall Irritation Index	24/48/72 h	50,5	110
	Conjunctivae score	24/48/72 h	15	20
	Iris score	24/48/72 h	4,5	10
	Corneal opacity score	24/48/72 h	26	80
Reversibility				
Not fully reversible: Within 14 days				
Not fully reversible: Within 14 days				
Not fully reversible: Within 14 days				
Not fully reversible: Within 14 days				

Conclusion/Summary: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization:

Information about the product or its ingredients:

Product/substance name	Result	Species	EC ₃ /SI	Guidelines/Notes
Long chain alkyl thio carbamide metal complex	Skin sensitizing (category 1B).	Guinea pig	-	EPA OPPTS 870.2600 (Skin sensitization)

Conclusion/Summary: Based on available data, the classification criteria are not met, but additional phrase EUH208 is applicable.

Germ cell mutagenicity:

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity:

Information about the product or its ingredients:

Product/substance name	Effect
Distillates (petroleum), hydrotreated heavy paraffinic Baseoil - unspecified	A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.
Distillates (petroleum), solvent-dewaxed heavy paraffinic Baseoil - unspecified	A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.
Distillates (petroleum), solvent-refined light paraffinic Baseoil - unspecified	A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.
Distillates (petroleum), hydrotreated light paraffinic Baseoil - unspecified	A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.
Distillates (petroleum), solvent-dewaxed light paraffinic Baseoil - unspecified	A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.

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Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	A substance need not be classified as carcinogenic if it can be demonstrated that the substance contains less than 3% DMSO extract.
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Conclusion/Summary: It is not classified as hazardous by the supplier of the main ingredient; this is considered as sufficient proof that Classification Carc. 1B also is not applicable to this product.

Reproductive toxicity:

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity – single exposure

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity – repeated exposure

Information about the product or its ingredients:

Conclusion/Summary: Based on available data, the classification criteria are not met.

Aspiration hazard.

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Inhalation:	Inhalation at ambient temperatures is unlikely due to the low vapor pressure of the main components. Inhalation may cause respiratory and nasal irritation.
Contact with the skin:	May cause mild skin irritation or allergic skin reaction (skin sensitization).
Contact with eyes:	May cause mild eye irritation.
Ingestion:	There is an aspiration hazard; can be fatal if inhaled if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Irritation of nasal cavity, respiratory tract irritation, cough.
Contact with the skin:	irritating feeling, redness, swelling, rash.
Contact with eyes:	Irritating feeling, redness, tearing.
Ingestion:	Lung damage, cough, chemical pneumonia, death.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term exposure

Potential immediate effects: Not available.

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Potential delayed effects: Not available.

Long-term exposure

Potential immediate effects: Not available.

Potential delayed effects: Liver damage.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Based on the available data, the product does not contain ingredients that, according to REACH Article 57(f) or Commission Delegated Regulation (EU) no. 2017/2100 or Commission Regulation (EU) no. 2018/605 are considered substances with endocrine disrupting properties, in a concentration of 0.1% or more.

11.2.2. Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Information about the product or its ingredients:

Product/Substance name	Species	Effect	Exposure	Dose
Distillates (petroleum), hydrotreated heavy paraffinic Baseoil - unspecified	Fish - Pimephales promelas	LL ₅₀	96 h	> 100 mg/L
	Fish - Oncorhynchus mykiss	NOELR	14 d.	>= 1 000 mg/L
	Crustacea - Daphnia magna	EL ₅₀	48 h	> 10 000 mg/L
	Crustacea - Daphnia magna	NOEL	21 d.	10 mg/L
	Algae - Raphidocelis subcapitata	NOEL	72 h	>= 100 mg/L
	Microorganisms– Photobacterium phosphoreum and Acetobacter methanolicus MB58	NOEL	10 min	> 1.93 mg/L
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate))	Fish - Oncorhynchus mykiss	LL ₅₀	96 h	4,5 mg/L
	Crustacea - Daphnia magna	EC ₅₀	48 h	5,4 mg/L
	Crustacea - Daphnia magna	NOEC	21 d.	0,4 mg/L
	Algae - Selenastrum capricornutum UTEX 1648	EC ₅₀	72 h	2,1 mg/L
	Microorganisms – activated sludge	EC ₅₀	3 h	> 10 000 mg/L
Long chain alkyl thio carbamide metal complex	Fish - Oncorhynchus mykiss	LL ₅₀	96 h	> 94,8 mg/L
	Crustacea - Daphnia magna	EL ₅₀	48 h	50 mg/L
	Crustacea - Daphnia magna	NOELR	21 d.	100 mg/L
	Algae - Raphidocelis subcapitata	EL ₅₀	72 h	9,62 mg/L
	Microorganisms – activated sludge	EC ₅₀	3 h	> 100 mg/L

Conclusion/Summary: Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Information about the product or its ingredients:

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Product/Substance name	CAS no.	Degradation	Guideline/ Test method
Distillates (petroleum), hydrotreated heavy paraffinic Baseoil - unspecified	64742-54-7	Degradable. Degradation (O2 consumption), 28 days: 31%	OECD guidelines 301 F (degradability: manometric respirometry test)
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	93819-94-4	Non-biodegradable. Degradation (CO2 Evolution), 28 days: 1.5%	OECD guidelines 301 B (Biodegradation Test – CO2 Evolution)/ EEU method C.4-C “Ready” Biodegradability — CO2 Evolution)
Long chain alkyl thio carbamide metal complex	- (EK: 457-320-2)	Non-biodegradable. Degradation (CO2 Evolution), 29 days: 22.75%	OECD guidelines 301 B (Biodegradation Test – CO2 Evolution)

Conclusion/Summary: Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Information about the product or its ingredients:

Product/Substance name	Effect
Distillates (petroleum), hydrotreated heavy paraffinic Baseoil - unspecified	BCF: 0,4 – 6280 L/kg ((Q)SAR)
Long chain alkyl thio carbamide metal complex	BCF: <= 7.4 without dimension BCF: <= 88 without dimension

12.4. Mobility in soil

Information about the product or its ingredients:

Product/Substance name	Effect
Distillates (petroleum), hydrotreated heavy paraffinic Baseoil - unspecified	log Koc: 1,71 – 14,70 ((Q)SAR) ¹²
Long chain alkyl thio carbamide metal complex	Koc: 398 107

12.5. Results of PBT and vPvB assessment

The product does not meet the PBT and vPvB criteria according to Annex XIII of the REACH Regulation (Regulation (EC) No. 1907/2006).

12.6. Endocrine disrupting properties

No data on adverse effects on animals or aquatic plants/animals are available.

Conclusion/Summary: Based on the available data, the product does not contain ingredients that, according to REACH Article 57(f) or Commission Delegated Regulation (EU) no. 2017/2100 or Commission Regulation (EU) no. 2018/605 are considered substances with endocrine disrupting properties, in a concentration of 0.1% or more.

12.7. Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Methods of disposal:	Waste must be disposed of in accordance with the requirements of national, municipal and local regulatory acts in the field of environmental protection. Do not allow spilled material to spread and enter soil, water bodies, drains and sewers.
Hazardous waste:	According to our current knowledge, the product is not considered hazardous waste according to EC directive no. 2008/98/EC and EU regulation no. 1357/2014.
European waste catalogue (EWC):	13 02 08*: mixtures of wastes from grit chambers and oil/water separators

Packaging:

Methods of disposal:	The generation of waste should be prevented or minimized as much as possible. The packaging to be disposed of is recyclable. May be added to general waste, after thorough cleaning of the packaging. Incineration or disposal in landfills is permitted only if replanting is not available. According to the supplier's current knowledge, the packaging is not considered hazardous waste according to EC directive 91/689/EEC.
European waste catalogue	Emptied package: EWC code: 15 01 10*: packaging containing residues of or contaminated by hazardous substances 16 01 07*: oil filters

SECTION 14: Transport information

The product is not classified as dangerous for transport according to transport regulations (ADR/RID, IMDG or ICAO/IATA).

	ADR/RID	ADN	IMDG	IATA
14.1. UN number or ID number	-	-	-	-
14.2. UN proper shipping name	-			
14.3. Transport hazard class(es)	-	-	-	-
14.4. Packing group	-	-	-	-
14.5. Environmental hazards	-	-	-	-
14.6. Special precautions for user	-	-	-	-
14.7. Maritime transport in bulk according to IMO instruments	-			

SECTION 15: Regulatory information

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

15.1.1. EU regulations

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

COMMISSION REGULATION (EU) No 1357/2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives

ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended.

RID - the Regulations concerning the International Carriage of Dangerous Goods by Rail, appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF) concluded at Vilnius on 3 June 1999, as amended.

ADN - the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways concluded at Geneva on 26 May 2000, as amended.

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IMDG Code - International Maritime Dangerous Goods Code.

IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association.

MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Annex XIV - List of substances subject to authorization: Not applicable.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

15.1.2. National legislation

to be filled out by local business

EN469 – "Protective clothing for firefighters - Performance requirements for protective clothing for firefighting activities";

EN ISO 374-1 – " Protective gloves against dangerous chemicals and micro-organisms

Part 1: Terminology and performance requirements for chemical risks";

EN 166:2002 - "Personal Eye Protection Standard";

EN ISO 13688 – " Protective clothing — General requirements";

EN ISO 20347:2021 "Personal protective equipment — Occupational footwear".

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

16.1. Abbreviations and acronyms

REACH: Regulation 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: International Rule for Transport of Dangerous Substances by Railway

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial chemical Substances

LC50: Median lethal concentration

LD50: Median lethal dose

REACH: Registration, Evaluation and Authorisation of Chemicals

PBT: Persistent, bio-accumulative and toxic

vPvB: Very persistent, very bio-accumulative

bw: Body weight.

16.2. Classification method

EUH208 – according to the generic cut-off value for this additional phrase laid down in the CLP Regulation.

16.3. Full text of abbreviated H statements [CLP/GHS]

Skin Irrit. 2, Skin corrosion/ irritation, Hazard Category 2;

H315 Causes skin irritation.

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Skin Sens. 1B, Sensitisation — Skin, hazard category 1B;

H317 May cause an allergic skin reaction.

Eye Dam. 1, Serious eye damage/eye irritation, Hazard Category 1.;

H318 Causes serious eye damage.

Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2;

H319 Causes serious eye irritation.

Carc. 1B, Carcinogenicity, Hazard Category 1B.;

H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Aquatic Chronic 2, Long-term (chronic) aquatic hazard, Category 2;

H411 Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3, Long-term (chronic) aquatic hazard, Category 3;

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains <name of sensitising substance>. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

16.4. Information sources

ECHA databases.

Safety data sheets compiled by raw material manufacturers.

16.5. Recommendations for training

In addition to health, safety and environmental training programs for employees, companies should ensure that employees read, understand and apply the information and recommendations in the Safety Data Sheets.

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