

Synmar Empanda 75W-85 FE GL-5Version number: 4.0
Replaces version of: 2022-09-19 (3)

Revision: 2024-11-27

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name	Synmar Empanda 75W-85 FE GL-5
Unique formula identifier (UFI)	QK20-Y09J-Q002-H66D
Article number	S300101

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

Relevant identified uses	Lubricant Transmission oil Professional use Consumer use
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1.3 Details of the supplier of the safety data sheetSynmar B.V.
Albert Schweitzerstraat 7
7131 PG Lichtenvoorde
NetherlandsTelephone: +31 (0) 33 303 3044
e-mail: info@synmar.nl
Website: www.synmar.nl

e-mail (competent person) info@synmar.nl

1.4 Emergency telephone number

Emergency information service	+31 (0) 33 303 3044 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00
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Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS)	0344-8920111 (medical professionals only)
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

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2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Warning

- pictograms

GHS07, GHS09



- hazard statements

 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 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.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

Contains: C14-18 alpha-olefin epoxide, reaction products with boric acid; triphenyl phosphite; 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).

2.3 Other hazards

Results of PBT and vPvB assessment

 Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

 Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients



3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

REACH information: In order to use the most updated information we have incorporated data available via the public REACH dossier into the safety datasheet.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Polysulfides, di-tert-Bu	CAS No 68937-96-2 EC No 273-103-3	3 – 5	Skin Sens. 1B / H317 Aquatic Chronic 3 / H412		
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	CAS No 4259-15-8	1 – 3	Eye Dam. 1 / H318 Aquatic Chronic 2 / H411		

Safety Data Sheet






acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	EC No 224-235-5				
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	EC No 931-384-6	1 – 3	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411		
O,O,O-triphenyl phosphorothioate	CAS No 597-82-0 EC No 209-909-9	0.1 – 1	Aquatic Chronic 1 / H410		
C14-18 alpha-olefin epoxide, reaction products with boric acid	EC No 701-392-2	0.1 – 1	Skin Sens. 1B / H317		
triphenyl phosphite	CAS No 101-02-0 EC No 202-908-4 Index No 015-105-00-7	0.1 – 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
Magnesium metaborate	CAS No 13703-82-7 EC No 237-235-5	0.1 – 1	Skin Sens. 1B / H317		

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In case of vomiting keep the head low so that stomach contents cannot enter the lungs. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

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4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media

Water mist; Foam; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced: nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), phosphorus oxides (P_xO_y), hydrogen sulphide (H₂S), sulphur oxides (SO_x).

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Special danger of slipping by leaking/spilling product.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Bunding. Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.). Pump out large quantities.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a dry place. Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels

- storage temperature

Maximum storage temperature: 40 °C

- maximum storage period

60 ms

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Polysulfides, di-tert-Bu	68937-96-2	DNEL	3.29 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Polysulfides, di-tert-Bu	68937-96-2	DNEL	4.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Polysulfides, di-tert-Bu	68937-96-2	DNEL	0.58 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Polysulfides, di-tert-Bu	68937-96-2	DNEL	1.67 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Polysulfides, di-tert-Bu	68937-96-2	DNEL	0.167 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	DNEL	6.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	DNEL	9.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	DNEL	1.67 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	DNEL	4.8 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	DNEL	0.19 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	4.28 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	160 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	160 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	1.09 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Reaction products of bis(4-methylpentan-		DNEL	6.25 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)						
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	160 µg/cm ²	human, dermal	consumer (private households)	chronic - local effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	160 µg/cm ²	human, dermal	consumer (private households)	acute - local effects
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		DNEL	0.25 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
O,O,O-triphenyl phosphorothioate	597-82-0	DNEL	0.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
O,O,O-triphenyl phosphorothioate	597-82-0	DNEL	0.2 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
O,O,O-triphenyl phosphorothioate	597-82-0	DNEL	0.2 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
O,O,O-triphenyl phosphorothioate	597-82-0	DNEL	1.39 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
O,O,O-triphenyl phosphorothioate	597-82-0	DNEL	0.34 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Magnesium metaborate	13703-82-7	DNEL	5.49 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Magnesium metaborate	13703-82-7	DNEL	7.78 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Magnesium metaborate	13703-82-7	DNEL	0.82 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Magnesium metaborate	13703-82-7	DNEL	0.278 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Magnesium metaborate	13703-82-7	DNEL	0.28 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
C14-18 alpha-olefin epoxide, reaction products with boric acid		DNEL	5.88 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
C14-18 alpha-olefin epoxide, reaction products with boric acid		DNEL	16.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
acid						
C14-18 alpha-olefin epoxide, reaction products with boric acid		DNEL	1.45 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
C14-18 alpha-olefin epoxide, reaction products with boric acid		DNEL	8.3 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
C14-18 alpha-olefin epoxide, reaction products with boric acid		DNEL	0.83 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
triphenyl phosphite	101-02-0	DNEL	0.53 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
triphenyl phosphite	101-02-0	DNEL	0.15 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
triphenyl phosphite	101-02-0	DNEL	11.7 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
triphenyl phosphite	101-02-0	DNEL	11.7 µg/cm ²	human, dermal	worker (industry)	acute - local effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	44 µg/l	aquatic organisms	water	intermittent release
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	4.6 µg/l	aquatic organisms	marine water	short-term (single instance)
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	3.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	0.322 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	0.032 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	PNEC	0.062 mg/kg	terrestrial organisms	soil	short-term (single instance)
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-		PNEC	2.4 µg/l	aquatic organisms	freshwater	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
14-alkyl (branched)						
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		PNEC	0.24 µg/l	aquatic organisms	marine water	short-term (single instance)
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		PNEC	24.33 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		PNEC	12.9 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		PNEC	1.29 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		PNEC	1.17 µg/kg	terrestrial organisms	soil	short-term (single instance)
O,O,O-triphenyl phosphorothioate	597-82-0	PNEC	0.17 µg/l	aquatic organisms	freshwater	short-term (single instance)
O,O,O-triphenyl phosphorothioate	597-82-0	PNEC	0.017 µg/l	aquatic organisms	marine water	short-term (single instance)
O,O,O-triphenyl phosphorothioate	597-82-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
O,O,O-triphenyl phosphorothioate	597-82-0	PNEC	33.9 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
O,O,O-triphenyl phosphorothioate	597-82-0	PNEC	3.39 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
O,O,O-triphenyl phosphorothioate	597-82-0	PNEC	2.46 mg/kg	terrestrial organisms	soil	short-term (single instance)
Magnesium metaborate	13703-82-7	PNEC	0.05 mg/l	aquatic organisms	freshwater	short-term (single instance)
Magnesium metaborate	13703-82-7	PNEC	0.05 mg/l	aquatic organisms	marine water	short-term (single instance)
Magnesium metaborate	13703-82-7	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Magnesium metaborate	13703-82-7	PNEC	1.38 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ate						instance)
Magnesium metaborate	13703-82-7	PNEC	1.38 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Magnesium metaborate	13703-82-7	PNEC	0.247 mg/kg	terrestrial organisms	soil	short-term (single instance)
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	1 mg/l	aquatic organisms	water	intermittent release
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	42,700 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	4,270 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
C14-18 alpha-olefin epoxide, reaction products with boric acid		PNEC	8,540 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- type of material
PVC: polyvinyl chloride, Nitrile rubber, NP: neoprene
 - material thickness
Use gloves with a minimum material thickness: ≥ 0.38 mm.
 - breakthrough time of the glove material
Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).
 - other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
- Respiratory protection**
In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).
- Environmental exposure controls**
Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	amber
Odour	characteristic
Melting point/freezing point	≤ -51 °C
Boiling point or initial boiling point and boiling range	>280 °C
Evaporation rate	$<0,1$ (n-butyl acetate = 1)
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	LEL: 0.6 vol% / UEL: 7 vol%
Flash point	190 °C
Auto-ignition temperature	>240 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	150 – 300 mm ² /s

Solubility

Water solubility	insoluble
Partition coefficient n-octanol/water (log value)	>3
Vapour pressure	<0.1 hPa at 20 °C

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Density and/or relative density

Density	0.855 – 0.865 kg/l
Relative vapour density	>1 at 20 °C (air = 1)

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Moisture, overheating.

10.5 Incompatible materials

Acids, oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Reaction products of bis(4-methylpentan-2-yl)dithio-phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		oral	500 mg/kg
triphenyl phosphite	101-02-0	oral	500 mg/kg

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Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	oral	LD50	3,100 mg/kg	rat
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	dermal	LD50	>5,000 mg/kg	rabbit
O,O,O-triphenyl phosphorothioate	597-82-0	oral	LD50	>10,000 mg/kg	rat
O,O,O-triphenyl phosphorothioate	597-82-0	dermal	LD50	>2,000 mg/kg	rat
Magnesium metaborate	13703-82-7	oral	LD50	>2,000 mg/kg	rat
Magnesium metaborate	13703-82-7	dermal	LD50	>2,000 mg/kg	rat
C14-18 alpha-olefin epoxide, reaction products with boric acid		oral	LD50	>16,000 mg/kg	rat
C14-18 alpha-olefin epoxide, reaction products with boric acid		dermal	LD50	>2,000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Polysulfides, di-tert-Bu	68937-96-2	EL50	63 mg/l	aquatic invertebrates	48 h
Polysulfides, di-tert-Bu	68937-96-2	NOELR	18 mg/l	aquatic invertebrates	48 h
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	LL50	4.4 mg/l	fish	96 h
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	LC50	46 mg/l	fish	96 h
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	EL50	75 mg/l	aquatic invertebrates	48 h
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	NOELR	3.2 mg/l	fish	96 h
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		LL50	24 mg/l	fish	96 h
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		EL50	91.4 mg/l	aquatic invertebrates	48 h
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		EC50	6.4 mg/l	algae	96 h
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		ErC50	15 mg/l	algae	96 h
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		NOELR	3.2 mg/l	fish	96 h
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		NOEC	1.7 mg/l	algae	96 h
O,O,O-triphenyl phosphorothioate	597-82-0	LL50	>100 mg/l	fish	96 h
O,O,O-triphenyl phosphorothioate	597-82-0	EC50	>100 mg/l	aquatic invertebrates	48 h
O,O,O-triphenyl phosphorothioate	597-82-0	EL50	>100 mg/l	algae	72 h
Magnesium metaborate	13703-82-7	LL50	>50 mg/l	fish	96 h
Magnesium metaborate	13703-82-7	EL50	>50 mg/l	aquatic invertebrates	24 h
Magnesium metaborate	13703-82-7	NOEC	50 mg/l	fish	96 h
Magnesium metaborate	13703-82-7	NOELR	50 mg/l	aquatic invertebrates	24 h
C14-18 alpha-olefin epoxide, reaction products with boric acid		LL50	>100 mg/l	fish	96 h
C14-18 alpha-olefin epoxide, reaction products with boric acid		EL50	>100 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
C14-18 alpha-olefin epoxide, reaction products with boric acid		NOELR	100 mg/l	fish	96 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	EC50	380 mg/l	microorganisms	16 h
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	NOEC	0.4 mg/l	aquatic invertebrates	21 d
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	LOEC	0.8 mg/l	aquatic invertebrates	21 d
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		EL50	0.91 mg/l	aquatic invertebrates	21 d
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		EC50	2,433 mg/l	microorganisms	3 h
O,O,O-triphenyl phosphorothioate	597-82-0	LOEC	4.3 µg/l	fish	97 d
O,O,O-triphenyl phosphorothioate	597-82-0	NOEC	1.7 µg/l	fish	97 d
Magnesium metaborate	13703-82-7	EC50	>1,000 mg/l	microorganisms	3 h
Magnesium metaborate	13703-82-7	NOEC	1,000 mg/l	microorganisms	3 h
C14-18 alpha-olefin epoxide, reaction products with boric acid		LL50	>100 mg/l	fish	33 d
C14-18 alpha-olefin epoxide, reaction products with boric acid		EL50	>100 mg/l	fish	33 d
C14-18 alpha-olefin epoxide, reaction products with boric acid		EC50	>10,000 mg/l	microorganisms	3 h
C14-18 alpha-olefin epoxide, reaction products with boric acid		NOELR	>100 mg/l	fish	33 d

12.2 Persistence and degradability

Not readily biodegradable.

Degradability of components					
Name of substance	CAS No	Process	Degradation rate	Time	Method
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8	oxygen depletion	<5 %	5 d	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		carbon dioxide generation	3.6 %	28 d	
O,O,O-triphenyl phosphorothioate	597-82-0	carbon dioxide gener-	17.82 – 3 %	29 d	

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Degradability of components					
Name of substance	CAS No	Process	Degradation rate	Time	Method
		ation			
Magnesium metaborate	13703-82-7	carbon dioxide generation	4 %	28 d	
C14-18 alpha-olefin epoxide, reaction products with boric acid		carbon dioxide generation	26.7 %	28 d	
triphenyl phosphite	101-02-0	oxygen depletion	70 %	7 d	

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

n-octanol/water (log KOW)	>3
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Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	4259-15-8		3.59 (pH value: ~5, 22 °C)	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		436	<0.3 (pH value: 7, 40 °C)	
O,O,O-triphenyl phosphorothioate	597-82-0		5 (pH value: 6.4, 23 °C)	
C14-18 alpha-olefin epoxide, reaction products with boric acid			≥6.24 – 9.4 (pH value: 6.6, 40 °C)	
triphenyl phosphite	101-02-0		6.62 (25 °C)	

12.4 Mobility in soil

Insoluble in water. Spillages may penetrate the soil causing ground water contamination. This product floats on water and may affect the oxygen-balance in the water.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

ADR/RID	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

14.2 UN proper shipping name

ADR/RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (Hazardous ingredients)	Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

14.3 Transport hazard class(es)

ADR/RID	9
IMDG-Code	9
ICAO-TI	9

14.4 Packing group

ADR/RID	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

Classification code	M6
Danger label(s)	9, fish and tree



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601

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Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	3Z

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

Classification code	M6
Danger label(s)	9, fish and tree



Environmental hazards	yes (hazardous to water)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	90

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	yes (hazardous to the aquatic environment) (Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat))
Danger label(s)	9, fish and tree



Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree



Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)

Notation

57) hazardous to the Aquatic Environment in category Chronic 2

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
O,O,O-triphenyl phosphorothioate	Organophosphorous compounds		a)	
triphenyl phosphite	Organophosphorous compounds		a)	

Legend

a) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

None of the ingredients are listed.

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
Synmar Empanda 75W-85 FE GL-5	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3

Legend

R3 1. Shall not be used in:
— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
— tricks and jokes,

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Legend

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- 2. Articles not complying with paragraph 1 shall not be placed on the market.
- 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- 5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
 - or even sucking the wick of lamps
 - may lead to life-threatening lung damage';
 - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
 - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
2.1		Classification (acc. to GB CLP): change in the listing (table)
2.2		- hazard statements: change in the listing (table)
2.2		- precautionary statements: change in the listing (table)
2.2	- hazardous ingredients for labelling: Contains: Polysulfides, di-tert-Bu; triphenyl phosphite; C14-18 alpha-olefin epoxide, reaction products with boric acid; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched).	- hazardous ingredients for labelling: Contains: C14-18 alpha-olefin epoxide, reaction products with boric acid; triphenyl phosphite; 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).
2.3	Other hazards: There is no additional information.	Other hazards
2.3	Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0.1\%$.	Results of PBT and vPvB assessment: Does not contain a PBT-vPvB-substance at a concentration of $\geq 0,1\%$.
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
3.2	Mixtures: The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.	Mixtures: The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section. REACH information: In order to use the most updated information we have incorporated data available via the public REACH dossier into the safety datasheet.
3.2		Mixtures: change in the listing (table)
4.1	Following eye contact: Irrigate copiously with clean, fresh water for at least 15	Following eye contact: Irrigate copiously with clean, fresh water for at least 15

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Section	Former entry (text/value)	Actual entry (text/value)
	minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.
7.3	Specific end use(s): There is no additional information.	Specific end use(s): See section 1.2.
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components: change in the listing (table)
8.2	Appropriate engineering controls: General ventilation.	Appropriate engineering controls: General ventilation. Provide eyewash stations and safety showers at the workplace.
8.2	Eye/face protection: eye protection must be worn Use safety goggle with side protection	Eye/face protection: eye protection must be worn Use safety goggle with side protection
8.2	Skin protection: wear protective clothing Chemical protective clothing.	Skin protection: wear protective clothing Chemical protective clothing.
8.2	Hand protection: safety gloves must be worn Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	Hand protection: safety gloves must be worn Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
8.2	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
9.1		Density and/or relative density
9.2	Other information: There is no additional information.	Other information
11.1	Acute toxicity of components of the mixture	
11.1		Acute toxicity of components: change in the listing (table)
11.1	Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.	Serious eye damage/eye irritation: Causes serious eye irritation.
11.2	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)
12.2		Degradability of components: change in the listing (table)

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Section	Former entry (text/value)	Actual entry (text/value)
12.3		Bioaccumulative potential of components: change in the listing (table)
12.5	Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0.1\%$.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
14.2	Technical name (Hazardous ingredients): Polysulfides, di-tert-Bu, Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	Technical name (Hazardous ingredients): Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
14.5	Environmentally hazardous substance (aquatic environment): Polysulfides, di-tert-Bu, Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat)	Environmentally hazardous substance (aquatic environment): Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
14.7	Marine pollutant: yes (hazardous to the aquatic environment) (Polysulfides, di-tert-Bu)	Marine pollutant: yes (hazardous to the aquatic environment) (Zink bis[O,O-bis(2-ethylhexyl)] bis(dithiofosfaat))
15.1		List of pollutants (WFD): change in the listing (table)
16		Abbreviations and acronyms: change in the listing (table)
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

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Abbr.	Descriptions of used abbreviations
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure

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Abbr.	Descriptions of used abbreviations
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye 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.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.