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

1.1 Product identifier

Gear oil SAE 75W-90 (GL-4)
Article number: 170136, 170137, 170138

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

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ferdinand Bilstein GmbH + Co. KG
Wilhelmstr. 47
58256 Ennepetal / GERMANY
Phone +49 2333 911-0
Fax +49 2333 911-444
Homepage www.febi.com
E-mail info@febi.com

Address enquiries to

Technical information info@febi.com

Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

Signal word none

Hazard statements H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling Contains: Amines, C10-14-tert-alkyl, 1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-.
EUH208 May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Environmental hazards Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards No particular hazards known.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 1	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate
	CAS: 255881-94-8, EINECS/ELINCS: 401-850-9, EU-INDEX: 015-146-00-0
	GHS/CLP: Repr. 2: H361fd - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 10
0,1 - < 1	1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-
	CAS: 73984-93-7, EINECS/ELINCS: 813-543-0, Reg-No.: 01-2120761104-64
	GHS/CLP: Skin Sens. 1B: H317 - Aquatic Chronic 3: H412
0,25 - < 1	Amines, C10-14-tert-alkyl
	CAS: 68955-53-3, EINECS/ELINCS: 701-175-2, Reg-No.: 01-2119456798-18-XXXX
	GHS/CLP: Acute Tox. 3: H311 - Acute Tox. 2: H330 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Acute Tox. 4: H302 - Skin Sens. 1A: H317, M-Factor (acute): 1, M-Factor (chronic): 1
0,1 - 1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
	CAS: 68411-46-1, EINECS/ELINCS: 270-128-1, Reg-No.: 01-2119491299-23-XXXX
	GHS/CLP: Repr. 2: H361f
0,01 - < 0,1	2,2'-(octadec-9-enylimino)bisethanol
	CAS: 25307-17-9, EINECS/ELINCS: 246-807-3, Reg-No.: 01-2119510876-35
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 10

Comment on component parts For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Sulphur oxides (SOx).
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Forms slippery surfaces with water.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. oil binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.
Use only in well-ventilated areas.
Use solvent-resistant equipment.

Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Cloths contaminated with product should not be kept in trouser pockets.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.

Do not store together with oxidizing agents.

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

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
Industrial, inhalative, Long-term - systemic effects, 12,5 mg/m³
Industrial, inhalative, Long-term - local effects, 12,1 mg/m³
general population, inhalative, Long-term - systemic effects, 2,5 mg/m³
general population, inhalative, Long-term - local effects, 1,2 mg/m³
general population, oral, Long-term - systemic effects, 0,35 mg/kg bw/day
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate, CAS: 255881-94-8
worker, inhalative, Long-term - systemic effects, 0,71 mg/m³ (AF=75)
worker, dermal, Long-term - systemic effects, 0,2 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 0,1 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 0,17 mg/m³
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
Industrial, inhalative, Long-term - systemic effects, 2,96 mg/m³
Industrial, dermal, Long-term - systemic effects, 0,42 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0,15 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,15 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,522 mg/m³
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-, CAS: 73984-93-7
Industrial, inhalative, Long-term - systemic effects, 2.93 mg/m³ (AF=75)
Industrial, dermal, Long-term - systemic effects, 0.83 mg/kg bw/d (AF=300)
general population, dermal, Long-term - systemic effects, 0.42 mg/kg bw/d (AF=600)
general population, oral, Long-term - systemic effects, 0.42 mg/kg bw/d (AF=600)
general population, inhalative, Long-term - systemic effects, 0.73 mg/m³ (AF=150)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
Industrial, inhalative, Long-term - systemic effects, 0,31 mg/m³ (AF= 50)
Industrial, dermal, Long-term - systemic effects, 0,44 mg/kg bw/d (AF= 200)
general population, inhalative, Long-term - systemic effects, 0,08 mg/m³ (AF= 100)
general population, dermal, Long-term - systemic effects, 0,22 mg/kg bw/d (AF= 400)
general population, oral, Long-term - systemic effects, 0,05 mg/kg bw/d (AF= 400)

PNEC

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
freshwater, 0,001 mg/l
seawater, 0 mg/l
sewage treatment plants (STP), 0,635 mg/l
sediment (freshwater), 2,14 mg/kg sediment dw

sediment (seawater), 0,214 mg/kg sediment dw
soil, 0,428 mg/kg soil dw
oral (food), 4,71 mg/kg food
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate, CAS: 255881-94-8
freshwater, 0,001 mg/L (AF=50)
seawater, 0 mg/L (AF=500)
sewage treatment plants (STP), 100 mg/L (AF=10)
sediment (freshwater), 0,85 mg/kg dw
sediment (seawater), 0,085 mg/kg dw
soil, 0,445 mg/kg dw
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
freshwater, 0,16 µg/L
seawater, 0,016 µg/L
sewage treatment plants (STP), 1,5 mg/L
sediment (freshwater), 1,692 mg/kg
sediment (seawater), 0,169 mg/kg
soil, 5 mg/kg
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-, CAS: 73984-93-7
freshwater, 0.04 mg/L (AF=1000)
seawater, 0.004 mg/L (AF=10 000)
sewage treatment plants (STP), 8000 mg/L (AF=1)
sediment (freshwater), 989.6 mg/kg dw
sediment (seawater), 98.96 mg/kg dw
soil, 516.08 mg/kg dw
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
freshwater, 33.8 µg/L
seawater, 3.38 µg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 446 µg/kg sediment dw
sediment (seawater), 44.6 µg/kg sediment dw
soil, 17.6 mg/kg soil dw
oral (food), 833 µg/kg food

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm: Nitrile rubber, >120 min (EN 374-1/-2/-3).
Skin protection	Light protective clothing.
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	not applicable
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	yellow
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	No information available.
Flash point [°C]	223
Flammability	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	0,84 (DIN 51757) (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	96,5 mm²/s (40°C)
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Strong oxidizing agent.
Strong basic compounds
Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
ATE-mix, oral, 25 125 mg/kg bw

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
LD50, oral, Rat, 500 - 1177 mg/kg
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
LD50, oral, Rat, > 300 - 2000 mg/kg
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-, CAS: 73984-93-7
LD50, oral, Rat, 6176 mg/kg bw
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LD50, oral, Rat, >5000 mg/kg bw
NOAEL, oral, Rat, 25 mg/kg bw/day

Acute dermal toxicity

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
LD50, dermal, Rat, 251 mg/kg bw (OECD 402)
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate, CAS: 255881-94-8
LD50, dermal, Rat, > 5000 mg/kg bw
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LD50, dermal, Rat, >2000 mg/kg bw

Acute inhalational toxicity

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
LC50, inhalative, Rat, 157 - 231 ppm 4h
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-, CAS: 73984-93-7
LC50, inhalative, Rat, > 0,62 mg/l, OECD 403, 4h

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
Eye, Rabbit, In vivo study, Causes serious eye damage.
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate, CAS: 255881-94-8
Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
dermal, Rabbit, In vivo study, corrosive
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate, CAS: 255881-94-8

dermal, Rabbit, OECD 404, non-irritating
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
dermal, Rabbit, OECD 404, corrosive

Respiratory or skin sensitisation Non-sensitizing.
On basis of test data

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
dermal, Guinea pig, In vivo study, sensitising
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate, CAS: 255881-94-8
dermal, Guinea pig, OECD 406, non-sensitizing
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
dermal, Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
NOAEL, dermal, Rat, 20 mg/kg, OECD 410, no adverse effect observed
NOAEC, inhalative, Rat, 19 mg/m³, OECD 412, no adverse effect observed
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
NOAEL, oral, Rat, 30 mg/kg bw/day, OECD 408, adverse effect observed

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
in vitro, negativ
in vivo, negativ
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
in vitro, OECD 471, negativ

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
NOAEL, oral, Rat, 150 mg/kg bw/day, OECD 443, no adverse effect observed

- Development

Substance
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
NOAEL, oral, Rat, 150 mg/kg bw/day, OECD 414, no adverse effect observed
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
NOAEL, parenteral, 75 mg/kg bw/d, OECD 422

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Amines, C10-14-tert-alkyl, CAS: 68955-53-3
EC50, (48h), Daphnia magna, 0,24 mg/l - 6 mg/l (Lit.)
EC50, (72h), Selenastrum capricornutum, 0,44 mg/l (OECD 201)
NOEC, (96h), Oncorhynchus mykiss, 0,56 mg/l (OECD 203)
2,2'-(octadec-9-enylimino)bisethanol, CAS: 25307-17-9
LC50, (96h), Danio rerio, > 0,1 - 1 mg/l
EC50, (48h), Daphnia magna, > 0,01 - 0,1 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, > 0,01 - 0,1 mg/l
EC10, (21d), Daphnia magna, > 0,001 - 0,01 mg/l
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-, CAS: 73984-93-7
EL50, (72h), Algae, > 100 mg/L
LL50, (96h), fish, > 1000 mg/L
LL50, (48h), Daphnia magna, 41 mg/L
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LC50, (96h), fish, 100 mg/L
EC50, (48h), Invertebrates, 51 mg/L
EC50, (72h), Invertebrates, 100 mg/L
EL10, (21d), Invertebrates, 1.69 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	In according to RoHS! Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended)	130206*

Contaminated packaging

	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	3082
Inland navigation (ADN)	3082
Marine transport in accordance with IMDG	3082
Air transport in accordance with IATA	3082

14.2 UN proper shipping name

Transport by land according to ADR/RID	Environmentally hazardous substance, liquid, n.o.s. (Alkyl dithiophosphate)
- Classification Code	M6
- Label	
- ADR LQ	5 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (-)
Inland navigation (ADN)	Environmentally hazardous substance, liquid, n.o.s. (Alkyl dithiophosphate)
- Classification Code	M6
- Label	
Marine transport in accordance with IMDG	Environmentally hazardous substance, liquid, n.o.s. (Alkyl dithiophosphate)
- EMS	F-A, S-F
- Label	
- IMDG LQ	5 l
Air transport in accordance with IATA	Environmentally hazardous substance, liquid, n.o.s. (Alky dithiophosphate)
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	9 (N)
Inland navigation (ADN)	9 (N)
Marine transport in accordance with IMDG	9
Air transport in accordance with IATA	9

14.4 Packing group

Transport by land according to ADR/RID	III
Inland navigation (ADN)	III
Marine transport in accordance with IMDG	III
Air transport in accordance with IATA	III

14.5 Environmental hazards

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1% CAS 255881-94-8 - S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate
- Annex I (REACH)	The product is not subject to Annex I restrictions.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
NATIONAL REGULATIONS (UK):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	not relevant

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H361f Suspected of damaging fertility.
H330 Fatal if inhaled.
H311 Toxic in contact with skin.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure	Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
Modified position	2.1, 2.2, 3.2, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7