

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Leichtlauf-Motorenöl O-1178 / QB-B-0443

Revision date: 30.05.2017

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

1.1. Product identifier

SRS Leichtlauf-Motorenöl O-1178 / QB-B-0443

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

Use of the substance/mixture

engine oil

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

Company name: SRS Schmierstoff Vertrieb GmbH
Street: Neuenkirchener Straße 8
Place: D-48499 Salzbergen
Telephone: 05976 - 945-0
Responsible Department: Abt. Produktsicherheit: info.reach@srs-oil.de

1.4. Emergency telephone number:

+49 551 19240, GIZ-Nord, Göttingen, Germany

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
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.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to local/regional/national/international regulations.

Special labelling of certain mixtures

EUH208 Contains Benzenesulfonic acid, mono-C15-36 branched alkyl derivs., C24 rich and Octadecyl Benzenesulfonic acid, calcium salts, C14-18 alpha-olefin epoxide, reaction with boric acid, methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, triphenyl phosphite. May produce an allergic reaction.

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2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64742-54-7	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic			45 - < 50 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated			30 - < 35 %
	500-183-1		01-2119486452-34	
	Asp. Tox. 1; H304			
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)			1 - < 5 %
	224-235-5		01-2119493635-27	
	Eye Dam. 1, Aquatic Chronic 2; H318 H411			
	Benzene, polypropene derivatives, sulfonated, calcium salts			< 1 %
			01-2120040541-70	
	Skin Sens. 1B; H317			
	C14-18 alpha-olefin epoxide, reaction products with boric acid			< 1 %
	939-580-3		01-2119976364-28	
	Skin Sens. 1B; H317			
101-02-0	triphenyl phosphite			< 1 %
	202-908-4	015-105-00-7		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H319 H317 H400 H410			
597-82-0	O,O,O-triphenyl phosphorothioate			< 1 %
	209-909-9			
	Repr. 2, Aquatic Chronic 4; H361fd H413			
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			< 1 %
	201-297-1	607-035-00-6		
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			

Full text of H and EUH statements: see section 16.

Further Information

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures**4.1. Description of first aid measures**



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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect).

Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

If swallowed or in the event of vomiting, risk of entering the lungs.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂) Sulphur dioxide (SO₂) Nitrogen oxides (NO_x)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes.

Avoid formation of oil dust.

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

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6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.
Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. (See section 8.) Avoid contact with skin, eyes and clothes.
Avoid formation of oil dust.
Do not breathe aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.
Fire class B

Further information on handling

Do not breathe vapour/aerosol.
Avoid contact with eyes and skin.
Advises on general occupational hygiene: See section 8.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Advice on storage compatibility

Do not store together with: Gas. Explosives. Radioactive substances. Infectious substances

Further information on storage conditions

Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)		
Worker DNEL, long-term	inhalation	systemic	6,6 mg/m ³
Worker DNEL, long-term	dermal	systemic	9,6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,67 mg/m ³
Consumer DNEL, long-term	dermal	systemic	4,8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,19 mg/kg bw/day
	C14-18 alpha-olefin epoxide, reaction products with boric acid		
Worker DNEL, long-term	inhalation	systemic	5.88 mg/m ³
Worker DNEL, long-term	dermal	systemic	16.7 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment	Value	
64742-54-7	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic	
Secondary poisoning	9,33 mg/kg	
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	
Freshwater	0,004 mg/l	
Freshwater (intermittent releases)	0,044 mg/l	
Marine water	0,0046 mg/l	
Freshwater sediment	0,322 mg/l	
Secondary poisoning	8,33 mg/kg	
Micro-organisms in sewage treatment plants (STP)	0,038 mg/l	
Soil	0,062 mg/kg	
	C14-18 alpha-olefin epoxide, reaction products with boric acid	
Freshwater	0.2 mg/l	
Freshwater (intermittent releases)	1 mg/l	
Marine water	0.02 mg/l	
Marine water (intermittent releases)	855.6 mg/kg	
Freshwater sediment	8556 mg/kg	
Secondary poisoning	100 mg/l	
Soil	1 706.3 mg/kg	

Additional advice on limit values

Air limit values::

Possibility of exposure to Aerosol

Limit value = 5 mg/ m³ - Source: ACGIH

8.2. Exposure controls



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Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

Clean skin thoroughly after working.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

Eye/face protection

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166

Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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.

Skin protection

Oil-resistant and hardly inflammable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-aerosol or mist formation

-exceeding exposure limit values

Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	clear
Odour:	characteristic

Test method

pH-Value: No information available.

Changes in the physical state

Melting point: No information available.

Initial boiling point and boiling range: No information available.

Sublimation point: No information available.

Softening point: No information available.

Pour point: <-49 °C ISO 3016

Flash point: 232 °C DIN ISO 2592

Sustaining combustion: No data available

Flammability

Solid: No information available.

Gas: No information available.

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Explosive properties

none

Lower explosion limits:

No information available.

Upper explosion limits:

No information available.

Ignition temperature:

No information available.

Auto-ignition temperature

Solid:

No information available.

Gas:

No information available.

Decomposition temperature:

No information available.

Oxidizing properties

none

Vapour pressure:

<0,1 hPa calculated.

(at 20 °C)

Vapour pressure:

No information available.

(at 50 °C)

Density (at 15 °C):

0,860 g/cm³ DIN 51757

Bulk density:

No information available.

Water solubility:

No information available.

Solubility in other solvents

No information available.

Partition coefficient:

No information available.

Viscosity / dynamic:

No information available.

Viscosity / kinematic:

51,9 mm²/s DIN EN ISO 3104

(at 40 °C)

Flow time:

No information available.

Vapour density:

No information available.

Evaporation rate:

No information available.

Solvent separation test:

No information available.

Solvent content:

No information available.

9.2. Other information

Solid content:

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
64742-54-7	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic			
	oral	LD50 >5000 mg/kg	Rat (OECD 401)	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rabbit (OECD 402)	ECHA Dossier
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated			
	oral	LD50 >5000 mg/kg	Rat.	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rat.	ECHA Dossier
	inhalative (4 h) aerosol	LC50 >5,2 mg/l	Rat. (OECD 403)	ECHA Dossier
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)			
	oral	LD50 > 3100 mg/kg	Rat.	ECHA Dossier
	dermal	LD50 > 5000 mg/kg	Rabbit.	ECHA Dossier
	C14-18 alpha-olefin epoxide, reaction products with boric acid			
	oral	LD50 >16000 mg/kg	Rat	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier
101-02-0	triphenyl phosphite			
	oral	ATE 500 mg/kg		
	dermal	LD50 >2000<5000 mg/kg	Rabbit (OECD 402)	ECHA Dossier
	inhalative (1 h) aerosol	LC50 >6,7 mg/l	Rat (OECD 403)	ECHA Dossier
597-82-0	O,O,O-triphenyl phosphorothioate			
	oral	LD50 >10000 mg/kg	Rat (OECD 401)	ECHA Dossier
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			
	oral	LD50 8400 mg/kg	Rat	
	dermal	LD50 > 5000 mg/kg	Rabbit	ECHA Dossier
	inhalative (4 h) aerosol	LC50 29,8 mg/l	Rat	ECHA Dossier

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate): Eye Dam. 1 SCL > 50%

Sensitising effects

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

May cause sensitisation especially in sensitive humans.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic:

In vitro mutagenicity/genotoxicity Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse.; Results: Non-carcinogenic if DMSO extract as measured by IP346 is less than 3% m/m. Literature information: ECHA Dossier; Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Results: NOAEL > 1000 mg/kg Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Results: NOAEL >= 2000 mg/kg Literature information: ECHA Dossier

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Reproductive toxicity: Species: Rat; Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Result: NOAEL > 1000 mg/kg; Literature information: ECHA Dossier

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity/Reproductive toxicity:; Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Result: NOAEL = 30 mg/kg; Literature information: ECHA Dossier

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: (inhalation.): OECD Guideline 451 (Carcinogenicity Studies, 6h/d); Species: Mouse.; Exposure duration: 2 years; Result: NOAEC = 4,1 mg/l; Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat; Result: NOAEL = 400 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rabbit.

Exposure duration: 28d; Result: NOAEL = 450 mg/kg; Literature information: ECHA Dossier

triphenyl phosphite:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Literature information: ECHA Dossier; Result: negative.; Reproductive toxicity: Species: Rat (Wistar); Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Exposure time: 112d; Results: NOAEL 40 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rabbit.; Method: OECD 422; Results: NOAEL 15 mg/kg; Literature information: ECHA Dossier

O,O,O-triphenyl phosphorothioate:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Reproductive toxicity: Species: Rat (Wistar); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Result: NOAEL >250 mg/kg; Literature information: ECHA Dossier

STOT-single exposure

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

STOT-repeated exposure

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

Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic:

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m³;

Literature information: ECHA Dossier; Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated Dose

Dermal Toxicity: 21/28-Day Study); Exposure time: 28d; Species: Rabbit; Results: 1000 mg/kg; Literature information: ECHA Dossier

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Species: Rat; Results: NOAEL 1000 mg/kg; Literature information: ECHA Dossier

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents);

Species: Rat; Results: NOAEL = 125 mg/kg; Literature information: ECHA Dossier

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate:

Chronic oral toxicity: Method: -; Species: Rat; Exposure duration: 2 years; Results: NOAEL = 2000 ppm.

Literature information: ECHA Dossier; Chronic inhalation toxicity: Method: OECD Guideline 453 (Combined

Chronic Toxicity / Carcinogenicity Studies, 6h/d); Species: Rat; Exposure duration: approx. 2 years; Results:

LOAEC = 250 ppm. Literature information: ECHA Dossier

triphenyl phosphite:

Chronic oral toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the

Reproduction / Developmental Toxicity Screening Test); Exposure time: 112d; Species: Rat; Results: NOAEL

15 mg/kg

O,O,O-triphenyl phosphorothioate:

Subacute oral toxicity Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents);

Species: Rat; Results: NOAEL 50 mg/kg; Literature information: ECHA Dossier

Aspiration hazard

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

Practical experience

Other observations

Frequent contact specially if dried out may cause skin and eye irritations.

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
64742-54-7	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic				
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna (OECD 211)	ECHA Dossier
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated				
	Acute fish toxicity	LC50 >750 mg/l	96 h	Pimephales promelas	MSDS extern
	Acute crustacea toxicity	EC50 190 mg/l	48 h	Daphnia magna	MSDS extern
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)				
	Acute fish toxicity	LC50 46 mg/l	96 h	Cyprinodon variegatus	ECHA Dossier
	Acute algae toxicity	ErC50 >240 mg/l	72 h	Pseudomonas putida	MSDS extern.
	Acute crustacea toxicity	EC50 >2-10 mg/l	48 h	Daphnia magna	MSDS extern.
	C14-18 alpha-olefin epoxide, reaction products with boric acid				
	Acute fish toxicity	LC50 mg/l LL50 > 100	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l EL50 >100	72 h	Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l EL50 >100	48 h	Daphnia magna	ECHA Dossier
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna	ECHA Dossier
597-82-0	O,O,O-triphenyl phosphorothioate				
	Acute fish toxicity	LC50 >100 mg/l	96 h	Danio rerio (OECD 201)	ECHA Dossier
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate				
	Acute fish toxicity	LC50 410 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50 >110 mg/l	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA Dossier
	Acute crustacea toxicity	EC50 720 mg/l	48 h	Daphnia magna	ECHA Dossier

12.2. Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-54-7	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	31%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	2-4%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated			
	OECD 301D / EEC 92/69 annex V, C.4-E	2 %	28	ECHA Dossier
	Product is not easily biodegradable.			
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)			
	OECD 301D / EEC 92/69 annex V, C.4-E	< 5%	27	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
	C14-18 alpha-olefin epoxide, reaction products with boric acid			
	OECD Guideline 301 B	26,7%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
101-02-0	triphenyl phosphite			
	OECD 301D / EEC 92/69 annex V, C.4-E	0,14 %	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
597-82-0	O,O,O-triphenyl phosphorothioate			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	17,8-19,3%	29	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	94%	14	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	>6,5
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	3,59
	C14-18 alpha-olefin epoxide, reaction products with boric acid	>= 6.24 - 9.4
101-02-0	triphenyl phosphite	6,62
597-82-0	O,O,O-triphenyl phosphorothioate	5,0
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	1,32

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about



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waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

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Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Observe in addition any national regulations!

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - water contaminating

Additional information

none

15.2 Chemical Safety Assessment
not applicable.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,8,9,11,14,15,16.

Rev. : 1,0 - 16.04.2015

Rev. : 1,1 - 27.04.2016

Rev. : 2,0 - 30.05.2017

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

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Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Benzenesulfonic acid, mono-C15-36 branched alkyl derivs., C24 rich and Octadecyl Benzenesulfonic acid, calcium salts, C14-18 alpha-olefin epoxide, reaction with boric acid, methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, triphenyl phosphite. May produce an allergic reaction.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)