

according to Regulation (EC) No 1907/2006

SRS Antikorrol M plus

Revision date: 08.10.2024

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

1.1. Product identifier

SRS Antikorrol M plus

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-48497 Salzbergen
Telephone:	05976 - 945-0
Responsible Department:	Abt. Produktsicherheit: info.reach@srs-oil.de
1.4. Emergency telephone	Gift-Informationszentrum Nord (Göttingen) - Telefon 0551-19240

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

H412

Regulation (EC) No 1272/2008

Hazard statements

Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P501	Dispose of contents/container to local/regional/national/international regulations.

Special labelling of certain mixtures

EUH208 Contains Alkyl- (C18-C28)

Toluenesulfonic acid,

Calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

2.3. Other hazards

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.

For information or further instructions, see also section 11 or 12.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	1272/2008)			
68784-31-6	Phosphorodithioic acid, mixed O,O	-bis(sec-Bu and 1,3-dimethylbutyl) e	esters, zinc salts	1 - < 3 %	
	272-238-5		01-2119657973-23		
	Eye Dam. 1, Aquatic Chronic 2; H3	18 H411			
	Alkyl- (C18-C28) Toluenesulfonic acid, Calcium salts, borated				
	953-650-0				
	Repr. 2, Skin Sens. 1B; H361d H31	17			
722503-68-6	Benzenesulfonic acid, methyl-, mor	alcium salts	0.5 - < 1 %		
	682-816-2				
	Skin Sens. 1B; H317				
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol			0.2 - < 0.3 %	
	620-540-6		01-2119510877-33		
	Acute Tox. 4, Skin Corr. 1C, Eye D H400 H410	onic 1; H302 H314 H318			
27859-58-1	(tetrapropenyl)succinic acid			0.2 - < 0.3 %	
	248-698-8		01-2120752504-57		
	Repr. 2, Skin Irrit. 2, Eye Dam. 1, STOT RE 2; H361d H315 H318 H373				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	Limits, M-factors and ATE	
68784-31-6	272-238-5	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	1 - < 3 %
	dermal: LD50 =	= >5000 mg/kg; oral: LD50 = >2000 mg/kg	
	953-650-0	Alkyl- (C18-C28) Toluenesulfonic acid, Calcium salts, borated	1 - < 3 %
	Repr. 2; H361d	: >= 17,15 - 100 Skin Sens. 1B; H317: >= 2 - 100	
722503-68-6	682-816-2	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	0.5 - < 1 %
	Skin Sens. 1B;	H317: >= 2 - 100	
1218787-32-6	620-540-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	0.2 - < 0.3 %
	oral: LD50 = 12	200 mg/kg Aquatic Acute 1; H400: M=10	
27859-58-1	248-698-8	(tetrapropenyl)succinic acid	0.2 - < 0.3 %
	oral: LD50 = 2'	100 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

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 all cases of doubt, or when symptoms persist, seek medical advice.



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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, seek medical treatment.

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. In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO2) Sulphur dioxide (SO2) Nitrogen oxides (NOx)

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

General advice

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special precautionary measures are necessary.

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.

6.3. Methods and material for containment and cleaning up

For containment

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.



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For cleaning up

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 formation of oil dust.

Advice on protection against fire and explosion

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

Advice on general occupational hygiene

Clean skin thoroughly after working.

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

Further information on handling

Do not breathe vapour/aerosol. Avoid contact with eyes and skin. General protection and hygiene measures: See section 8.

General protection and hygiene measures. See section 6.

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.

Hints on joint storage

Do not store together with: Gas. Explosives. Oxidizing substances. 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)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Name of agent						
DNEL type		Exposure route	Effect	Value			
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts						
Worker DNEL	, long-term	inhalation	systemic	2.93 mg/m³			
Worker DNEL	, acute	inhalation	systemic	496.4 mg/m³			
Worker DNEL	long-term	dermal	systemic	10.42 mg/kg bw/day			
Worker DNEL	, acute	dermal	systemic	100 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	11.75 mg/m³			
Consumer DN	EL, acute	inhalation	systemic	198.6 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	2.1 mg/kg bw/day			
Consumer DN	EL, acute	dermal	systemic	50 mg/kg bw/day			
Consumer DN	EL, long-term	oral	systemic	0.21 mg/kg bw/day			
Consumer DN	EL, acute	oral	systemic	29 mg/kg bw/day			
1218787-32- 6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl ir	nino) diethanol					
Worker DNEL	long-term	dermal	systemic	0,42 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	0,522 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	0,15 mg/kg bw/day			
Consumer DN	EL, long-term	oral	systemic	0,15 mg/kg bw/day			
Worker DNEL	, long-term	inhalation	systemic	2,96 mg/m ³			
27859-58-1	(tetrapropenyl)succinic acid		·				
Worker DNEL	, long-term	inhalation	systemic	1,2 mg/m³			
Worker DNEL	, long-term	dermal	systemic	0,7 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	0,3 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	0,3 mg/kg bw/day			
Consumer DN	EL, long-term	oral	systemic	0,2 mg/kg bw/day			



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PNEC values

CAS No	Name of agent	
Environmental	compartment	Value
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc	c salts
Freshwater		0,04 mg/l
Marine water		0,0046 mg/l
Freshwater se	diment	0,07 mg/kg
Marine sedime	ent	0,007 mg/kg
Secondary poi	soning	8,33 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	3,8 mg/l
Soil		0,055 mg/kg
1218787-32- 6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	
Freshwater		0,000214 mg/l
Freshwater (in	termittent releases)	0,00087 mg/l
Marine water		0,000021 mg/l
Freshwater se	diment	1,692 mg/kg
Marine sedime	ent	0,169 mg/kg
Secondary poi	soning	2 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	1,5 mg/l
Soil		5 mg/kg
27859-58-1	(tetrapropenyl)succinic acid	
Freshwater		0,1 mg/l
Freshwater (in	termittent releases)	1 mg/l
Marine water		0,01 mg/l
Freshwater se	diment	62,1 mg/kg
Marine sedime	ent	6,21 mg/kg
Secondary poi	soning	3,33 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	100 mg/l
Soil		12,4 mg/kg

Additional advice on limit values

Air limit values: Possibility of exposure to Aerosol (Mineral oil) Limit value (TLV-TWA) = 5 mg/ m3 - Source: ACGIH Limit value (TLV-STEL) = 10 mg/ m3 - Source: ACGIH

STEL: short-term exposure limits TLV: Threshold Limiting Value TWA: time weighted average ACGIH:American Conference of Governmental Industrial Hygienists

8.2. Exposure controls







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Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

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

Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 374/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.

Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

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: Colour:	liquid clear		
Odour:	characteristic		
	onaraotonicaio		Test method
Melting point/freezing point:		No information available.	
Boiling point or initial boiling point and boiling range:		No information available.	
Flammability:		No information available.	
Lower explosion limits:		No information available.	
Upper explosion limits:		No information available.	
Flash point:		244 °C	
Auto-ignition temperature:		No information available.	
Decomposition temperature:		No information available.	
pH-Value:		No information available.	
Viscosity / kinematic: (at 40 °C)		99,9 mm²/s	DIN EN ISO 3104
Water solubility:		No information available.	
Solubility in other solvents			
No information available.			
Partition coefficient n-octanol/water:		No information available.	



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Vapour pressure: (at 20 °C)	No information available.	
Vapour pressure: (at 50 °C)	No information available.	
Density (at 15 °C):	0,892 g/cm³	DIN 51757
Bulk density:	No information available.	
Relative vapour density:	No information available.	
Particle characteristics:	No information available.	
9.2. Other information		
Information with regard to physical hazard classes		
Explosive properties		
none		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No information available.	
Gas:	No information available.	
Oxidizing properties		
none		
Other safety characteristics		
Evaporation rate:	No information available.	
Solvent separation test:	No information available.	
Solvent content:	No information available.	
Solid content:	No information available.	
Sublimation point:	No information available.	
Softening point:	No information available.	
Pour point:	-30 °C	ASTM D 5985
Viscosity / dynamic:	No information available.	
Flow time:	No information available.	

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known. Refer to chapter 10.5.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No information available.



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Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
68784-31-6	Phosphorodithioic acid, m	ixed O,O-bis(see	c-Bu and	I 1,3-dimethylbutyl) esters,	zinc salts				
	oral	LD50 >20 mg/kg	000	Rat.	ECHA Dossier	OECD Guideline 401			
	dermal	LD50 >50 mg/kg	000	Rabbit	ECHA Dossier	OECD Guideline 402			
1218787-32- 6	2,2'-(C16-18 (evennumbe	red, C18 unsatu	rated) all	kyl imino) diethanol					
	oral	LD50 120 mg/kg	00	Rat	ECHA Dossier	OECD Guideline 425			
27859-58-1	(tetrapropenyl)succinic acid								
	oral	LD50 210 mg/kg	00	Rat	ECHA Dossier	OECD Guideline 401			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met. Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts: Irritant effect on the eye: non-irritant. By analogy. Raw material classification

Sensitising effects

Based on available data, the classification criteria are not met. Contains Alkyl- (C18-C28) Toluenesulfonic acid, Calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction



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Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met. Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts: Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents); Species: Rat; Exposure duration: 28 d; Results: NOAEL = 125mg/kg; Literature information: REACH Dossier 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assav) Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) Result: negative (READ ACROSS) Literature information: REACH Dossier Reproductive toxicity/ Developmental toxicity/teratogenicity: Method: - OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / **Developmental Toxicity Screening Test**) Species: Rat Results: NOAEL (P0) = 75 mg/kg; NOAEL (F1) = 75 mg/kg Reproductive toxicity: Method: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) Species: Rat Result: NOAEL (P0) >= 150 mg/kg; NOAEL (F1) >= 150 mg/kg Literature information: REACH Dossier Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rat Results: NOEL (Maternal toxicity, fetus) > 150 mg/kg; Literature information: REACH Dossier Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rabbit Results: NOAEL (Maternal toxicity, fetus) > 150 mg/kg; Literature information: REACH Dossier Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rabbit Results: NOAEL (fetus) >= 60 mg/kg; Literature information: REACH Dossier (tetrapropenyl)succinic acid: In-vitro mutagenicity: Method: -OECD Guideline 471 (Bacterial Reverse Mutation Assay) -OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) -OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene) Result: negative Literature information: REACH Dossier Developmental toxicity/teratogenicity/Reproductive toxicity: Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) Species: Rat Result: NOAEL (P0) > 100 mg/kg; Result: NOAEL (F1) >100 mg/kg Literature information: REACH Dossier STOT-single exposure

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



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STOT-repeated exposure

Based on available data, the classification criteria are not met. Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts: In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative ; Literature information: REACH Dossier

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Subchronic oral toxicity Exposure time: 90d Species: Wistar Rat. Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Result: NOEL = 50 mg/kg bw/day Literature information: REACH Dossier Method: -Species: Rat. Result: NOEL = 35 mg/kg. Literature information: REACH Dossier

(tetrapropenyl)succinic acid: Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) Species: Rat ; Exposure duration: 28 d Results: NOAEL >= 100 mg/kg Literature information: REACH Dossier

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
68784-31-6	Phosphorodithioic acid, m	nixed O,O-bis	s(sec-Bu and	d 1,3-dim	ethylbutyl) esters, zinc sa	alts	
	Acute fish toxicity	LC50 4,4 mg/l	LL50 =	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 410 mg/l	EL50 =	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 75 mg/l	EL50 =	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
1218787-32- 6	2,2'-(C16-18 (evennumbe	red, C18 un	saturated) al	kyl iminc) diethanol		
	Acute fish toxicity	LC50	0,6 mg/l	96 h	Danio rerio	ECHA Dossier	READ ACROSS
	Acute algae toxicity	ErC50 mg/l	0,0867	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	READ ACROSS
	Crustacea toxicity	NOEC mg/l	0,32	21 d	Daphnia magna	ECHA Dossier	READ ACROSS
	Acute bacteria toxicity	EC50 ()	167 mg/l	3 h	activated sludge of a predominantly domestic sewag	ECHA Dossier	READ ACROSS
27859-58-1	(tetrapropenyl)succinic ac	id					
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	100 mg/l	96 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202

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.

CAS No	Chemical name								
	Method	Value	d	Source					
	Evaluation								
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethy	butyl) esters, zinc salt	s						
	EU Method C.6	< 5%	27	ECHA Dossier					
	Readily biodegradable (according to OECD criteria).								
1218787-32- 6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) die	thanol							
	OECD Guideline 301 D	52%	28	ECHA Dossier					
	Not easily bio-degradable (according to OECD-criteria).								
27859-58-1	(tetrapropenyl)succinic acid								
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D 18,3 % 28 ECHA Dossier								
	Not easily bio-degradable (according to OECD-criteria).								

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	3,6
27859-58-1	(tetrapropenyl)succinic acid	>= 3,286



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BCF

CAS No	Chemical name	BCF	Species	Source
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	110,2		QSAR result (2010)

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. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No information available.

Further information

Ozone depletion potential (ODP): No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

List of Wastes Code - 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 or ID 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 or ID number:	UN 9006
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<u>14.3. Transport hazard class(es):</u>	9
14.4. Packing group:	-
Hazard label:	-
Classification code:	M12
Marine transport (IMDG)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.



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<u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u>	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 of Informations for personal protective 14.7. Maritime transport in bulk according not relevant	equipment see chapter 8.	
SECTION 15: Regulatory information		
	gulations/legislation specific for the substance or mixture	
EU regulatory information		
Directive 2010/75/EU on industrial emissions:	No information available.	
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.	
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
Additional information		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	enile
Water hazard class (D):	2 - obviously hazardous to water	
Additional information		
Regulation (EU) No. 649/2012 of the of dangerous chemicals: not relevan	e European parliament and of the council concerning the export and import nt	
15.2 Chemical Safety Assessment not applicable.		
SECTION 16: Other information		

Changes

This data sheet contains changes from the previous version in section(s): 11,12,15,16. fRev. : 1,0 - 04.05.2015 Rev. : 1,1 - 06.05.2016 Rev.: 2,0 - 15.06.2017 Rev.: 3,0 - 29.06.2018 Rev.: 4,0 - 28.06.2019 Rev. : 5,0 - 29.06.2020; Changes in chapter: 16



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Rev.: 6.0 - 17.06.2021; Changes in chapter: 3.2, 6.1, 6.3, 11.2, 12.6, 12.7, 15.1, 16

Rev.: 6.1 - 06.09.2021; Changes in chapter: 2.2, 3.2, 11.1,12.1, 16

Rev.: 6,2 - 29.07.2022, Changes in chapter: 2.2, 2.3, 3.2, 8.2, 12.5, 12.6, 15.1, 16

Rev.: 7.0 - 01.07.2023, Changes in chapter: 2.2, 9.1, 12.5, 12.7, 16

Rev.: 7,1 - 17.10.2023, Changes in chapter: 3.2, 8.1, 9.1, 11.1, 11.2, 12.1, 12.2, 12.3, 15.1, 16

Rev.: 8,0 - 08.10.2024, Changes in chapter: 11.1, 12.1, 16



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Abbreviations and acronyms Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Skin Sens: Skin sensitisation Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures d: dav(s) DNEL: Derived No Effect Level IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue 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) h: hour LOAEL: Lowest observed adverse effect level LOAFC: 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 concentration NLP: No-Longer Polymers NTP: National Toxicology Program N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic PMT: Persistent, mobile and toxic REACH: Registration, Evaluation, Authorisation of Chemicals RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) SVHC: substance of verv high concern TRGS: Technische Regeln für Gefahrstoffe UN: United Nations TSCA: Toxic Substances Control Act vPvM: very persistent and very mobile vPvB: very persistent and very bioaccumulative VOC: Volatile Organic Compounds WGK: Water Hazard Class (Germany)



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Key literature references and sources for data

https://echa.europa.eu/ https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp https://cfpub.epa.gov/ecotox/search.cfm http://www.inchem.org/#/search https://pubchem.ncbi.nlm.nih.gov/ http://ccinfoweb.ccohs.ca/rtecs/search.html https://webrigoletto.uba.de/rigoletto/

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H361d	Suspected of damaging the unborn child.		
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.		
EUH208	Contains Alkyl- (C18-C28)		
Toluenesulfonic acid,			
Calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts.			

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)