

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Getriebefluid ZFC**

Revision date: 01.06.2023

Page 1 of 16

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

SRS Getriebefluid ZFC

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

gear 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 number:**

Gift-Informationszentrum Nord (Göttingen)  
Telefon 0551-19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**2.3. Other hazards**

Endocrine disrupting properties: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched.

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

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

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched: This substance has been listed as SVHC (substance of very high concern) 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 (Regulation (EC) No 1272/2008)			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			25 - < 30 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 2 of 16

	Mineral Oil* (64742-54-7, 64742-65-0, 64742-56-9)		3 - < 5 %
	Asp. Tox. 1; H304		
	Mineral Oil* (64742-54-7, 64742-65-0, 64742-55-8, 64742-56-9)		3 - < 5 %
	Asp. Tox. 1; H304		
11059-65-7	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)		1 - < 3 %
	234-277-6	01-2119972705-28	
	Aquatic Chronic 3; H412		
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic		1 - < 3 %
	265-158-7	649-468-00-3	01-2119487077-29
	Asp. Tox. 1; H304		
75975-85-8	Benzene, polypropene derivatives, sulfonated, calcium salts		0.5 - < 1 %
	Skin Sens. 1B; H317		
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched		0.2 - < 0.3 %
	310-154-3	604-092-00-9	01-2119513207-49
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410		

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. Limits, M-factors and ATE	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	25 - < 30 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
11059-65-7	234-277-6	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)	1 - < 3 %
		dermal: LD50 = > 25600 mg/kg; oral: LD50 = 10000 mg/kg	
64742-55-8	265-158-7	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic	1 - < 3 %
		inhalation: LC50 = > 5,53 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
75975-85-8		Benzene, polypropene derivatives, sulfonated, calcium salts	0.5 - < 1 %
		Skin Sens. 1B; H317: >= 10 - 100	
121158-58-5	310-154-3	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	0.2 - < 0.3 %
		dermal: LD50 = 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	

#### Further Information

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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).

\*The mineral oil can be described by one or more EINECS numbers. 265-157-1, 265-169-7, 265-158-7, 265-159-2, (REACH-no.: 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48)

## 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).

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Getriebefluid ZFC**

Revision date: 01.06.2023

Page 3 of 16

**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.

**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 (CO<sub>2</sub>). 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 (CO<sub>2</sub>) Sulphur dioxide (SO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

**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 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.

**6.3. Methods and material for containment and cleaning up**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Getriebefluid ZFC**

Revision date: 01.06.2023

Page 4 of 16

**For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

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 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.

**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****DNEL/DMEL values**

CAS No	Name of agent	Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m <sup>3</sup>



### Safety Data Sheet

according to Regulation (EC) No 1907/2006

#### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 5 of 16

Consumer DNEL, long-term	oral	systemic	0,74 mg/kg bw/day
11059-65-7	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)		
Worker DNEL, long-term	inhalation	systemic	7,34 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	617,8 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	4,17 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	299 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,81 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	152,3 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	2,1 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	149,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,21 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	43,8 mg/kg bw/day
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic		
Worker DNEL, long-term	inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	0,74 mg/kg bw/day
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched		
Worker DNEL, acute	inhalation	systemic	44,18 mg/m <sup>3</sup>
Worker DNEL, acute	dermal	systemic	166 mg/kg bw/day
Consumer DNEL, acute	inhalation	systemic	13,26 mg/m <sup>3</sup>
Consumer DNEL, acute	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	1,26 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	1.762 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,79 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,075 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,075 mg/kg bw/day

#### PNEC values

CAS No	Name of agent	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
	Secondary poisoning	9,33 mg/kg
11059-65-7	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)	
	Freshwater	0,075 mg/l

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 6 of 16

Freshwater (intermittent releases)	0,75 mg/l
Marine water	0,0075 mg/l
Freshwater sediment	0,06 mg/kg
Marine sediment	0,006 mg/kg
Secondary poisoning	8,3 mg/kg
Micro-organisms in sewage treatment plants (STP)	16,5 mg/l
Soil	0,02 mg/kg
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic
Secondary poisoning	9,33 mg/kg
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched
Freshwater	0,000074 mg/l
Freshwater (intermittent releases)	0,00037 mg/l
Marine water	0,000007 mg/l
Freshwater sediment	0,226 mg/kg
Marine sediment	0,027 mg/kg
Secondary poisoning	4 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	0,118 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



#### 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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 7 of 16

#### Skin protection

Oil-resistant and hardly inflammable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

#### 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.

#### Thermal hazards

Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e. g. leather).

#### 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:	characteristic
Odour:	characteristic

	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:	234 °C COC
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
pH-Value:	No information available.
Viscosity / kinematic: (at 40 °C)	68,98 mm <sup>2</sup> /s DIN EN ISO 3104
Water solubility:	Immiscible
Solubility in other solvents	
No information available.	
Partition coefficient n-octanol/water:	No information available.
Vapour pressure: (at 20 °C)	No information available.
Vapour pressure: (at 50 °C)	No information available.
Density (at 15 °C):	0,8776 g/cm <sup>3</sup> DIN 51757
Bulk density:	No information available.
Relative vapour density:	No information available.
Particle characteristics:	No information available.

### 9.2. Other information

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Getriebefluid ZFC**

Revision date: 01.06.2023

Page 8 of 16

**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:

-45 °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 product 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****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

**ATEmix calculated**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 9 of 16

	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	OECD 402
11059-65-7	Zinc bis[bis(tetrapropylenphenyl)] bis(hydrogen dithiophosphate)					
	oral	LD50 mg/kg	10000	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 mg/kg	> 25600	Rabbit	ECHA Dossier	OECD Guideline 402
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic					
	oral	LD50 mg/kg	> 5000	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rabbit	ECHA Dossier	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 mg/l	> 5,53	Rat	ECHA Dossier	OECD Guideline 403
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched					
	oral	LD50 mg/kg	2100	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg	15000	Rabbit	ECHA Dossier	OECD 402

#### Irritation and corrosivity

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

#### 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

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

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

In vitro mutagenicity/genotoxicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) with modifications

Results: negative. / positive.

Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Results: negative.

Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Results: negative. / positive.

Literature information: ECHA Dossier

In vivo mutagenicity/genotoxicity

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Results: negative. ; Literature information: ECHA Dossier

Reproductive toxicity

Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

Exposure time: 28d; Species: Rat

Results: NOAEL = > 2000 mg/kg(bw)/day; Literature information: ECHA Dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Exposure time: 28d; Species: Rat

Results: NOAEL = > 2000 mg/kg(bw)/day; Literature information: ECHA Dossier

Distillates (petroleum), solvent-dewaxed light paraffinic:

In vitro mutagenicity/genotoxicity:

Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result:

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 10 of 16

negative. Literature information: ECHA Dossier; Chronic dermal toxicity: Exposure time: ~546 d; Species: Mouse.; Method: OECD Guideline 451; Result: Carcinogenicity = negative. Literature information: ECHA Dossier; Exposure route: oral. Species: Rat.; Method: OECD Guideline 421; Result: NOAEL >1000 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Exposure route: dermal. Species: Rat.; Method: OECD Guideline 414; Result: NOAEL >2000 mg/kg; Literature information: ECHA Dossier

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

Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate):  
 In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.; Literature information: ECHA Dossier  
 Developmental toxicity/teratogenicity /Reproductive toxicity:  
 Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  
 Species: Rat  
 Results: NOEL = 40 mg/kg (Developmental toxicity/teratogenicity )  
 Results: NOEL >= 160 mg/kg (Species:)  
 Literature information: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:  
 In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat ; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 100 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity: Species: Sprague-Dawley Rat; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Result: NOAEL 15 mg/kg; Literature information: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:  
 In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat ; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 100 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity: Species: Sprague-Dawley Rat; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Result: NOAEL 15 mg/kg; Literature information: ECHA Dossier

#### STOT-single exposure

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

#### STOT-repeated exposure

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

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic:  
 Subacute inhalative toxicity : Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL > 980 mg/m<sup>3</sup>;  
 Literature information: J Appl Toxicol, Vol 11(4), pp 297-302; Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study); Exposure time: 28d; Species: Rabbit; Results: NOAEL 1000 mg/kg(bw)/day; Literature information: ECHA Dossier; Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat; Results: NOAEL = 125 mg/kg; Literature information: ECHA Dossier

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 11 of 16

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified:  
 Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m<sup>3</sup>;  
 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

Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate):  
 Subchronic oral toxicity:  
 Species: Rat; Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Result: NOAEL >= 160 mg/kg; Literature information: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

Subchronic oral toxicity: Exposure time: 90d. Method: OECD Guideline 408 ; Species: Rat; Results: NOAEL = 100 mg/kg. Subacute oral toxicity: Exposure time: 28d. Method: OECD Guideline 407 ; Species: Rat ; Results: NOAEL = 60 mg/kg. Literature information: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

Subchronic oral toxicity: Exposure time: 90d. Method: OECD Guideline 408 ; Species: Rat; Results: NOAEL = 100 mg/kg. Subacute oral toxicity: Exposure time: 28d. Method: OECD Guideline 407 ; Species: Rat ; Results: NOAEL = 60 mg/kg. Literature information: ECHA Dossier

#### Aspiration hazard

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

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

Endocrine disrupting properties: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched.  
 No information available.

##### Other information

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment. Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment on the basis of test data, expert judgement or analogy assessments.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna (OECD 211)	ECHA Dossier	
11059-65-7	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)					
	Acute fish toxicity	LC50 100 mg/l LL50 >	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 1000 mg/l EL 50 >	72 h	Scenedesmus subspicatus CCAP 276/20	ECHA Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 75 mg/l EL 50 =	48 h	Daphnia magna		EU Method C.2

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 12 of 16

	Acute bacteria toxicity	(EC50 1650 mg/l)	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic					
	Acute fish toxicity	LC50 100 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier	OECD Guideline 203
	Acute crustacea toxicity	EC50 >10000 mg/l	48 h	Daphnia magna (Big water flea)	ECHA Dossier	OECD Guideline 202
	Algae toxicity	NOEC 100 mg/l	3 d	Pseudokirchneriella subcapitata	ECHA Dossier	
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna (Big water flea)	ECHA Dossier	OECD Guideline 211
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched					
	Acute fish toxicity	LC50 40 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Crustacea toxicity	NOEC mg/l	21 d	daphnia magna	ECHA Dossier	OECD 211

#### 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			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
		OECD 301 F / ISO 9408 / EEC 92/69 annex V, C.4-D	31%	28	ECHA Dossier
		OECD 301 B / ISO 9439 / EEC 92/69 annex V, C.4-C	2-4%	28	ECHA Dossier
11059-65-7	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)				
		OECD Guideline 301 B	5,9%	28	ECHA Dossier
		OECD Guideline 301 F	4,2	28	ECHA Dossier
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic				
		OECD Guideline 301 F	31%	28	ECHA Dossier
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched				
		OECD 301 B / ISO 9439 / EEC 92/69 annex V, C.4-C	25%	28	ECHA Dossier

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

##### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
11059-65-7	Zinc bis[bis(tetrapropylphenyl)] bis(hydrogen dithiophosphate)	ca. 7,4
64742-55-8	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic	> 3,5
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	7,1

##### BCF

CAS No	Chemical name	BCF	Species	Source
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	2,9		

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Getriebefluid ZFC**

Revision date: 01.06.2023

Page 13 of 16

**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**

Endocrine disrupting properties: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched.

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)**

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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Getriebefluid ZFC**

Revision date: 01.06.2023

Page 14 of 16

**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. Maritime transport in bulk according to IMO instruments**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 30, Entry 75

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

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

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

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): not relevant

Observe in addition any national regulations!

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**Additional information**

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment  
not applicable.**SECTION 16: Other information****Changes**

Rev. : 1,0 - 29.05.2015

Rev. : 1,1 - 17.07.2015

Rev. : 1,2 - 21.06.2016

Rev.: 2,0 - 21.06.2017

Rev.: 2,1 - 14.08.2017

Rev. : 3,0 - 21.08.2018

Rev. : 4,0 - 30.08.2019

Rev. : 4,1 - 14.01.2020; Changes in chapter: 9.1

Rev.: 5,0 - 29.06.2020; Changes in chapter: 3.2, 8.1, 11.1, 12.1, 12,2, 12.3, 16

Rev.: 6,0 - 07.06.2021; Changes in chapter: 2.3, 3.2, 6.1, 6.3, 11.1, 11.2, 12.1, 12.2, 12.3, 12.6, 12.7, 15.1, 16

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 15 of 16

Rev.: 7.0 - 14.06.2022, Changes in chapter: 2.2, 2.3, 3.2, 8.2, 12.5, 12.6, 16

Rev.: 8.0 - 01.06.2023, Changes in chapter: 8.1, 9.1, 12.1, 12.7, 16

#### Abbreviations and acronyms

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

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 concentration

NTP: National Toxicology Program

N/A: not applicable

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 )

SVHC: substance of very high concern

TRGS Technische Regeln fuerGefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

#### Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360F May damage fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH210 Safety data sheet available on request.

#### 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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS Getriebefluid ZFC

Revision date: 01.06.2023

Page 16 of 16

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