

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 1 of 22

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

SRS VIVA 1 special F 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 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**

EUH208 Contains Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs., C14-16-18 Alkyl phenol,  $\mu$ 3-thio-1,2:1,3:2,3-tris( $\mu$ -disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

**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****Relevant ingredients**

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			80 - < 85 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified			1 - < 3 %
	276-737-9	649-482-00-X	01-2119474878-16	
	Asp. Tox. 1; H304			



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 2 of 22

72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified			1 - < 3 %
	276-738-4	649-483-00-5	01-2119474889-13	
	Asp. Tox. 1; H304			
64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified			1 - < 3 %
	265-174-4	649-477-00-2	01-2119487080-42	
	Asp. Tox. 1; H304			
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified			1 - < 3 %
	265-169-7	649-474-00-6	01-2119471299-27	
	Asp. Tox. 1; H304			
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			1 - < 3 %
	265-159-2	649-469-00-9	01-2119480132-48	
	Asp. Tox. 1; H304			
	Reaction products of diphenylamine with nonene, branched			1 - < 3 %
	701-385-4		01-2119488911-28	
	Repr. 2; H361f			
	Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.			1 - < 3 %
	701-556-3			
	Skin Sens. 1B, STOT RE 2; H317 H373			
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)			1 - < 3 %
	249-109-7		01-2119953278-28	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			
1190625-94-5	C14-16-18 Alkyl phenol			0.2 - < 0.3 %
	931-468-2		01-2119498288-19	
	Skin Sens. 1B, STOT RE 2; H317 H373			
	$\mu$ 3-thio-1,2:1,3:2,3-tris( $\mu$ -disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenu m(IV)dialkyldithiocarbamate			0.1 - < 0.2 %
	457-320-2		01-0000019337-66	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412			

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	80 - < 85 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
72623-86-0	276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	1 - < 3 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
72623-87-1	276-738-4	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	1 - < 3 %
		inhalation: LC50 = >5,53 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
64742-70-7	265-174-4	Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified	1 - < 3 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	1 - < 3 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
64742-56-9	265-159-2	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	1 - < 3 %

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 3 of 22

	inhalation: LC50 = >5,53 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg		
	701-385-4	Reaction products of diphenylamine with nonene, branched	1 - < 3 %
	oral: LD50 = > 5000 mg/kg		
	701-556-3	Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.	1 - < 3 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
28629-66-5	249-109-7	zinc bis(O,O-diisooctyl) bis(dithiophosphate)	1 - < 3 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 3760 mg/kg Eye Dam. 1; H318: >= 15 - 100 Eye Irrit. 2; H319: >= 14,9 - < 15		
1190625-94-5	931-468-2	C14-16-18 Alkyl phenol	0.2 - < 0.3 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
	457-320-2	$\mu$ 3-thio-1,2:1,3:2,3-tris( $\mu$ -disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangul o-trimolybdenum(IV)dialkyldithiocarbamate	0.1 - < 0.2 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		

#### 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).

## 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 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, 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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 4 of 22

#### 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>) Phosphorus oxides

#### 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.

#### 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.

##### 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.

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

Wash contaminated clothing before reuse.

##### Further information on handling

Do not breathe vapour/aerosol.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 5 of 22

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 solids. Oxidizing liquids. 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>
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; 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>
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
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
64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>



### Safety Data Sheet

according to Regulation (EC) No 1907/2006

#### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 6 of 22

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
64742-65-0	Distillates (petroleum), solvent-dewaxed 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>
Consumer DNEL, long-term	oral	systemic	0,74 mg/kg bw/day
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>
64742-56-9	Distillates (petroleum), solvent-dewaxed light 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	oral	systemic	0,74 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	1,19 mg/m <sup>3</sup>
	Reaction products of diphenylamine with nonene, branched		
Worker DNEL, long-term	inhalation	systemic	1.41 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,35 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,2 mg/kg bw/day
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)		
Worker DNEL, long-term	inhalation	systemic	6.55 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	9.29 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1.61 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	4.65 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0.19 mg/kg bw/day
1190625-94-5	C14-16-18 Alkyl phenol		
Worker DNEL, long-term	inhalation	systemic	1,17 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,3 mg/kg bw/day
	μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate		
Worker DNEL, long-term	inhalation	systemic	3,52 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	2,23 mg/kg bw/day



### Safety Data Sheet

according to Regulation (EC) No 1907/2006

#### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 7 of 22

Worker DNEL, long-term	dermal	local	0,075 mg/cm <sup>2</sup>
Consumer DNEL, long-term	inhalation	systemic	1,76 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1,12 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,038 mg/cm <sup>2</sup>
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day

**PNEC values**

CAS No	Name of agent	Value
Environmental compartment		Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
Reaction products of diphenylamine with nonene, branched		
Freshwater		0.412 mg/l
Marine water		0.041 mg/l
Microorganisms in sewage treatment plants (STP)		1 mg/l
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)	
Freshwater		0,004 mg/l
Marine water		0,0046 mg/l
Freshwater sediment		0.144 mg/kg
Marine sediment		0.0144 mg/kg
Secondary poisoning		8.33 mg/kg
Microorganisms in sewage treatment plants (STP)		3 mg/l
Soil		0.026 mg/kg
1190625-94-5	C14-16-18 Alkyl phenol	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		4266 mg/kg
Marine sediment		422,6 mg/kg
Secondary poisoning		100 mg/l
Soil		852,58 mg/kg
μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate		

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 8 of 22

Freshwater	0,081 mg/l
Freshwater (intermittent releases)	0,14 mg/l
Marine water	0,008 mg/l
Freshwater sediment	3449 mg/kg
Marine sediment	344,9 mg/kg
Secondary poisoning	20 mg/kg
Microorganisms in sewage treatment plants (STP)	10 mg/l
Soil	0,872 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.

**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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 9 of 22

**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: clear  
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: 53,79 mm<sup>2</sup>/s DIN EN ISO 3104  
(at 40 °C)  
Water solubility: Immiscible  
Solubility in other solvents  
No information available.  
Partition coefficient n-octanol/water: No information available.  
Vapour pressure: <0,1 hPa calculated.  
(at 20 °C)  
Vapour pressure: No information available.  
(at 50 °C)  
Density (at 15 °C): 0,8484 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****Information with regard to physical hazard classes**

Explosive properties  
none

Sustained combustibility: 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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 10 of 22

Sublimation point:	No information available.
Softening point:	No information available.
Pour point:	-39 °C ISO 3016
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				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	OECD 401
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	OECD 402
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	ECHA Dossier	OECD Guideline 402
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	OECD 401

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 11 of 22

	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	OECD 402
	inhalation (4 h) dust/mist	LC50 mg/l	>5,53	Rat	ECHA Dossier	OECD 403
64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified					
	oral	LD50 mg/kg	> 5000	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier	OECD Guideline 402
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	OECD 402
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified					
	oral	LD50 mg/kg	>5000	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier	
	inhalation (4 h) dust/mist	LC50 mg/l	>5,53	Rat.	ECHA Dossier	
	Reaction products of diphenylamine with nonene, branched					
	oral	LD50 mg/kg	> 5000	Rat	ECHA Dossier	OECD Guideline 401
	Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.					
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier	OECD Guideline 423
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier	OECD Guideline 402
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)					
	oral	LD50 mg/kg	3760	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier	OECD 402
1190625-94-5	C14-16-18 Alkyl phenol					
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier	OECD Guideline 423
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier	OECD Guideline 402
	$\mu$ 3-thio-1,2:1,3:2,3-tris( $\mu$ -disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate					
	oral	LD50 mg/kg	> 2000	Rat	ECHA Dossier	OECD Guideline 425
	dermal	LD50 mg/kg	> 2000	Rat	ECHA Dossier	OECD Guideline 402

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 12 of 22

#### 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.

zinc bis(O,O-diisooctyl) bis(dithiophosphate):

Serious eye damage/eye irritation: Eye Dam. 1:

Specific concentration limit (SCL) > 15 %

Serious eye damage/eye irritation: Eye Irrit. 2:

Specific concentration limit (SCL) = ca. 15 %

Method: EPA OPPTS 870.2400 (15 % solution)

Species: Rabbit

Result: non-irritant.

Literature information: ECHA Dossier

#### Sensitising effects

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

Contains Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs., C14-16-18 Alkyl phenol,

μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyl dithiocarbamate. May produce an allergic reaction.

Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.:

A raw material containing this substance has been tested/evaluated for sensitisation up to a maximum treat rate for the raw material of 10 % with negative results. Based on this, the product itself is not considered to be sensitising to the skin (H317). (Dilution principle).

May cause sensitisation especially in sensitive humans.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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.

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

In vitro mutagenicity/genotoxicity Method: OECD Guideline 473 (In Vitro Mammalian Chromosomal

Aberration Test); Result: negative Literature information: REACH 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:

REACH Dossier; Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421

(Reproduction / Developmental Toxicity Screening Test); Results: NOAEL > 1000 mg/kg Literature

information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method:

OECD Guideline 414 (Prenatal Developmental Toxicity Study); Results: NOAEL >= 2000 mg/kg Literature

information: REACH Dossier

Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation

Test); Result: negative Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline

453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse.; Result: Non-carcinogenic if

DMSO extract as measured by IP346 is less than 3% m/m. Literature information: REACH Dossier;

Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction /

Developmental Toxicity Screening Test); Result: NOAEL > 1000 mg/kg; Literature information: REACH

Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline

414 (Prenatal Developmental Toxicity Study); Result: NOAEL >= 2000 mg/kg; Literature information: REACH

Dossier

Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation

Test); Result: negative Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline

453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse; Result: Non-carcinogenic if

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 13 of 22

DMSO extract as measured by IP346 is less than 3% m/m.; Literature information: REACH Dossier;  
Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction /  
Developmental Toxicity Screening Test); Result: NOAEL > 1000 mg/kg; Literature information: REACH  
Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline  
414 (Prenatal Developmental Toxicity Study); Result: NOAEL >= 2000 mg/kg; Literature information: REACH  
Dossier

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:  
In vitro mutagenicity/genotoxicity:  
-OECD Guideline 471 (Bacterial Reverse Mutation Assay)  
-OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)  
-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)  
Result: negative Literature information: REACH Dossier

Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified:  
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: negative  
Literature information: REACH Dossier

Chronic dermal toxicity:  
Exposure time: ~546 d  
Species: Mouse.  
Method: OECD Guideline 451  
Result: Carcinogenicity = negative  
Literature information: REACH Dossier

Reproductive toxicity:  
Exposure route: oral.  
Species: Rat.  
Method: OECD Guideline 421  
Result: NOAEL >1000 mg/kg  
Literature information: REACH Dossier

Developmental toxicity/teratogenicity:  
Exposure route: dermal.  
Species: Rat.  
Method: OECD Guideline 414  
Result: NOAEL >2000 mg/kg  
Literature information: REACH Dossier

zinc bis(O,O-diisooctyl) bis(dithiophosphate):  
In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay): Result: negative  
Literature information: REACH Dossier; Reproductive toxicity: Exposure route: oral. Species: Rat.; Method:  
OECD Guideline 421; Result: NOAEL = 30 mg/kg; Literature information: REACH Dossier;

C14-16-18 Alkyl phenol:  
In-vitro mutagenicity:  
Method:  
-OECD Guideline 471 (Bacterial Reverse Mutation Assay)  
-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 14 of 22

-OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test)

Result: negative

Literature information: REACH Dossier

Developmental toxicity/teratogenicity /Reproductive toxicity:

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

Species: Rat.

Results: NOAEL (P0) = 225 mg/kg; NOAEL (F1) >= 225 mg/kg;

Literature information: REACH Dossier

Reaction products of diphenylamine with nonene, branched:

In-vitro mutagenicity:

Method:

-OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test)

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

-OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)

Result: negative

Literature information: REACH Dossier

Reproductive toxicity:

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

Species: Rat

Result: NOAEL (P0, F1) = 1500 ppm

Literature information: REACH Dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat, Rabbit

Result: NOAEL (fetus) >= 500 mg/kg (Rat); 30 mg/kg (Rabbit)

Result: NOAEL (Maternal toxicity) = 150 mg/kg (Rat); 30 mg/kg (Rabbit)

Literature information: REACH 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.

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: REACH 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: REACH Dossier

Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:

Subacute inhalative toxicity: Method: -; Exposure time: 28d. Species: Rat. Results: NOAEL >980 mg/m<sup>3</sup>.

Literature information: REACH Dossier

Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m<sup>3</sup>;

Literature information: REACH 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: REACH Dossier

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

Subacute inhalative toxicity :

Method: -

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 15 of 22

Exposure time: 28d  
Species: Rat  
Results: > 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: 1000 mg/kg  
Literature information: REACH Dossier

Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified:  
Subchronic oral toxicity:  
Exposure time: 90d  
Species: Sprague-Dawley Rat.  
Method: OECD Guideline 408  
Result: LOAEL = 125 mg/kg  
Literature information: REACH Dossier

Subacute inhalative toxicity :  
Exposure time: 28d  
Species: Sprague-Dawley Rat.  
Result: NOAEC > 980 mg/m<sup>3</sup>  
Literature information: REACH Dossier

Subacute dermal toxicity:  
Exposure time: 28d  
Species: Rabbit  
Method: OECD Guideline 410  
Result: NOAEL 1000 mg/kg  
Literature information: REACH Dossier

zinc bis(O,O-diisooctyl) 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: REACH Dossier  
Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study);  
Species: Rabbit ; Results: NOAEL = 100 mg/kg; Literature information: REACH Dossier

C14-16-18 Alkyl phenol:  
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

Reaction products of diphenylamine with nonene, branched:  
Subchronic oral toxicity: Exposure time: 90d; Species: Han Wistar Rat.; Method: OECD Guideline 408;  
Result: LOAEL = 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**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 16 of 22

#### 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

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

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	
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified					
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	
64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	ECHA Dossier	The aquatic toxicity was estimated by a
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 >10000 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna	ECHA Dossier	
	Reaction products of diphenylamine with nonene, branched					
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Fish toxicity	NOEC 10 mg/l	34 d	Danio rerio	ECHA Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC >10 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.					

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS VIVA 1 special F plus

Revision: 20.03.2026

Page 17 of 22

	Acute fish toxicity	LC50 mg/l	>100	96 h	Cyprinus carpio	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Raphidocelis subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)						
	Acute fish toxicity	LC50 mg/l	LL5= 3,5	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	EL50 = 410 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	EL50 = 320 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
1190625-94-5	C14-16-18 Alkyl phenol						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Cyprinus carpio	ECHA Dossier	OECD Guideline 203
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate						
	Acute fish toxicity	LL50 mg/l	> 94,8	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	9,62	72 h	Raphidocelis subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50	50 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ( )	> 100	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209

### 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 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).				
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified				
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C		2-4 %	28	ECHA Dossier

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 18 of 22

	Not easily bio-degradable (according to OECD-criteria).			
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified			
	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).			
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			
	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).			
	Reaction products of diphenylamine with nonene, branched			
	(Q)SAR CATALOGIC v5.13.1.	31%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
	(Q)SAR CATALOGIC v5.13.1.	24%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
	Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.			
	OECD Guideline 301 B	6%	29	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)			
	OECD 301D / EEC 92/69 annex V, C.4-E	<5%	27	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
1190625-94-5	C14-16-18 Alkyl phenol			
	WoE	6%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
	μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate			
	OECD Guideline 301 B	22,75	29	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
	Reaction products of diphenylamine with nonene, branched	11,87
	Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.	7,2
28629-66-5	zinc bis(O,O-diisooctyl) bis(dithiophosphate)	3,59
1190625-94-5	C14-16-18 Alkyl phenol	>7,2
	μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate	> 5,1

**BCF**

CAS No	Chemical name	BCF	Species	Source
	Reaction products of diphenylamine with nonene, branched	411	Cyprinus carpio	ECHA Dossier
	μ3-thio-1,2:1,3:2,3-tris(μ-disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate	0	Cyprinus carpio	ECHA Dossier

**12.4. Mobility in soil**

No information available.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 19 of 22

**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)**

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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 20 of 22

**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**

Restrictions on use (REACH, annex XVII):

Entry 75

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**

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): 75

Observe in addition any national regulations!

**National regulatory information**

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

**Additional information**

Regulation (EU) 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**

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

Rev.: 1,0 - 15.04.2015

Rev.: 1,01 - 28.04.2015

Rev.: 1,1 - 09.05.2016

Rev.: 2,0 - 02.06.2017

Rev.: 3,0 - 27.06.2018

Rev.: 4,0 - 25.06.2019

Rev.: 5,0 - 08.02.2021, Changes in chapter: 3.2, 16

Rev.: 6,0 - 04.02.2022, Changes in chapter: 2.3, 3.2, 6.1, 6.3, 8.2, 11.2, 12.5, 12.6, 12.7, 15.1, 16

Rev.: 7,0 - 27.01.2023, Changes in chapter: 9.1, 16

Rev.: 7,1 - 12.10.2023, Changes in chapter: 2.2, 3.2, 8.1, 9.1, 11.1, 12.1, 12.2, 12.3, 12.7, 15.16

Rev.: 7,2 - 20.03.2024, Changes in chapter: 11.1, 12.1, 16

Rev.: 8,0 - 07.03.2025, Changes in chapter: 11.1, 16

Rev.: 9,0 - 06.03.2026, Changes in chapter: 15.1, 16

Rev.: 9,1 - 20.03.2026, Changes in chapter: 2,2, 3,2, 8,1, 11,1, 12,1, 12,2, 12,3, 15,1, 16

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 21 of 22

**Abbreviations and acronyms**

Asp. Tox. 1: Aspiration hazard, hazard category 1  
Skin Irrit. 2: Skin irritation, hazard category 2  
Eye Dam. 1: Serious eye damage, hazard category 1  
Skin Sens. 1B: Skin sensitisation, hazard category 1B  
Repr. 2: Reproductive toxicity, hazard category 2  
STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3  
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: day(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  
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  
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 very 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)

**Key literature references and sources for data**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS VIVA 1 special F plus**

Revision: 20.03.2026

Page 22 of 22

<https://echa.europa.eu/>  
<https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>  
<https://cfpub.epa.gov/ecotox/search.cfm>  
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<http://ccinfoweb.ccohs.ca/rtecs/search.html>  
<https://webrigoletto.uba.de/rigoletto/>

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

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.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs., C14-16-18 Alkyl phenol, $\mu$ 3-thio-1,2:1,3:2,3-tris( $\mu$ -disulfido-k2S)-1,2,3-tris(dialkyldithiocarbamate)-triangulo-trimolybdenum(IV)dialkyldithiocarbamate. May produce an allergic reaction.
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.

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