Print date: 20.07.2017



## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### **SRS VIVA 1**

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

#### 1.1. Product identifier

SRS ViVA 1

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

### Use of the substance/mixture

engine oil

### Uses advised against

none

## 1.3. Details of the supplier of the safety data sheet

Company name: SRS Schmierstoff Vertrieb GmbH

Street: Neuenkirchener Straße 8
Place: D-48499 Salzbergen
Telephone: 05976 - 945-0

Responsible Department: Abt. Produktsicherheit: info.reach@srs-oil.de

1.4. Emergency telephone +49 551 19240, GIZ-Nord, Göttingen, Germany

number:

### **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

EUH208 Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium

salts. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

### 2.3. Other hazards

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

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate

List according to Article 59 of REACH.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

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#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according				
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based				
	276-738-4	649-483-00-5	01-2119474889-13		
	Asp. Tox. 1; H304				
trade secret	Polyolefin polyamine suc	1 - < 5 %			
	Aquatic Chronic 4; H413				
68784-31-6	Phosphorodithioic acid, i	1 - < 5 %			
	272-238-5		01-2119657973-23		
	Eye Dam. 1, Aquatic Chronic 2; H318 H411				
trade secret	Calcium alkaryl sulfonate	1 - < 5 %			
	Aquatic Chronic 4; H413				

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

#### **Further Information**

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

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## **General information**

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

#### After inhalation

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

## After contact with skin

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

#### After contact with eyes

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

## After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

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

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**



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## 5.1. Extinguishing media

#### Suitable extinguishing media

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

## Unsuitable extinguishing media

High power water jet

### 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

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

## 5.3. Advice for firefighters

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

#### Additional information

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

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

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8).

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

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

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

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 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

## Further information on handling

Do not breathe vapour/aerosol.

Avoid contact with eyes and skin.

Advices on general occupational hygiene: See section 8.

## 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

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

### Advice on storage compatibility

Do not store together with: Gas. Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances.



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Infectious substances

## Further information on storage conditions

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

## 7.3. Specific end use(s)

refer to chapter 1.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts					
Worker DNEL, long-term		inhalation	systemic	2.93 mg/m³		
Worker DNEL, acute		inhalation	systemic	496.4 mg/m³		
Worker DNEL, long-term		dermal	systemic	10.42 mg/kg bw/day		
Worker DNEL, acute		dermal	systemic	100 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	11.75 mg/m³		
Consumer DNEL, acute		inhalation	systemic	198.6 mg/m³		
Consumer DNEL, long-term		dermal	systemic	2.1 mg/kg bw/day		
Consumer DNEL, acute		dermal	systemic	50 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	0.21 mg/kg bw/day		
Consumer DN	EL, acute	oral	systemic	29 mg/kg bw/day		

## PNEC values

	•				
CAS No	Substance				
Environmenta	Value				
68784-31-6 Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts					
Freshwater		0,04 mg/l			
Marine water		0,0046 mg/l			
Freshwater sediment 0,07 ii					
Marine sediment		0,007 mg/kg			
Secondary po	- visoning	8,33 mg/kg			
Micro-organisms in sewage treatment plants (STP)					
Soil		0,055 mg/kg			

### Additional advice on limit values

Air limit values:

Possibility of exposure to: Aerosol Value: = 5 mg/ m3 - Source: ACGIH

## 8.2. Exposure controls







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## Appropriate engineering controls

Provide adequate ventilation.

### Protective and hygiene measures

Clean skin thoroughly after working.

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

#### Eye/face protection

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

### Hand protection

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

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

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Oil-resistant and hardly inflammable protective clothing.

## Respiratory protection

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

Respiratory protection necessary at:

- -aerosol or mist formation
- -exceeding exposure limit values

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

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

### **Environmental exposure controls**

No information available.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: clear
Odour: characteristic

Test method

pH-Value: No information available.

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

No information available.

Pour point: -36 °C ISO 3016
Flash point: 224 °C ISO 2592

Sustaining combustion: No data available

**Flammability** 

Solid: No information available.

Gas: No information available.

#### **Explosive properties**

none



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Lower explosion limits:

No information available. DIN 51649
Upper explosion limits:

No information available. DIN 51649

Ignition temperature: No information available.

**Auto-ignition temperature** 

Solid: No information available.
Gas: No information available.
Decomposition temperature: No information available.

**Oxidizing properties** 

none

Vapour pressure: No information available. calculated

(at 20 °C)

Vapour pressure: No information available.

(at 50 °C)

Density (at 15 °C): 0,8734 g/cm³ DIN 51757

Bulk density:

Water solubility:

No information available.

practically insoluble

Solubility in other solvents

No information available.

Partition coefficient: No information available.

Viscosity / dynamic: No information available.

Viscosity / kinematic: 100,7 mm²/s DIN EN ISO 3104

(at 40 °C)

Flow time:

Vapour density:

No information available.

Evaporation rate:

No information available.

No information available.

Solvent separation test:

No information available.

No information available.

No information available.

9.2. Other information

Solid content: No information available.

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

Stable at ambient temperature.

# 10.3. Possibility of hazardous reactions

No hazardous reactions known.

## 10.4. Conditions to avoid

No information available.

## 10.5. Incompatible materials

Oxidising agent, strong

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## **SECTION 11: Toxicological information**



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### 11.1. Information on toxicological effects

## Toxicocinetics, metabolism and distribution

No information available.

### **Acute toxicity**

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based						
	oral	LD50	>5000 mg/kg	Rat (OECD 401)	ECHA Dossier		
	dermal	LD50	>2000 mg/kg	Rabbit (OECD 402)	ECHA Dossier		
	inhalative (4 h) aerosol	LC50	>5,53 mg/l	Rat (OECD 403)	ECHA Dossier		
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts						
	oral	LD50	>2000 mg/kg	Rat.	ECHA Dossier		
	dermal	LD50	>5000 mg/kg	Rabbit	ECHA Dossier		

#### Irritation and corrosivity

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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts: Irritant effect on the eye: negative.

Test was carried out with a similar preparation/mixture.

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

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

Literature information: ECHA dossier; Result: negative.; 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

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

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

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

Dermal Toxicity: 21/28-Day Study); Exposure time: 28d; Species: Rabbit

Results: 1000 mg/kg ;Literature information: ECHA Dossier

#### **Aspiration hazard**

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

### **Practical experience**

## Other observations

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



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## **SECTION 12: Ecological information**

#### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts					
	Acute fish toxicity	LC50 mg/l	LL50 = 4,4	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	EL50 = 410	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	EL50 = 75	48 h	Daphnia magna	ECHA Dossier
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	ECHA Dossier

## 12.2. Persistence and degradability

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

moditation department.							
CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based						
	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).						
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts						
	EU Method C.6	< 5%	27	ECHA Dossier			
	Easily biodegradable (concerning to the criteria of the OECD)						

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## Advice on disposal

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

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



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### **SECTION 14: Transport information**

Land transport (ADR/RID)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

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

not relevant

## **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.

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

(SEVESO III):

**Additional information** 

Not subject to regulation 96/82/EC.

Observe in addition any national regulations!

**National regulatory information** 

Water contaminating class (D): 2 - water contaminating

**Additional information** 



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none

15.2 Chemical Safety Assessment not applicable.

### **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s):

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Rev.: 1,0 - 09.03.2015 Rev.: 1,01 - 28.04.2015 Rev.: 1,10 - 01.02.2016 Rev.: 1,20 - 30.03.2017

Abbreviations and acronyms

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

CAS Chemical Abstracts Service DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organization

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern TRGS Technische Regeln für Gefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

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

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium

salts. May produce an allergic reaction.

EUH210 Safety data sheet available on request.



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## **Further Information**

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

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