

according to Regulation (EC) No 1907/2006

SRS Ersolan 100

Revision date: 04.11.2024

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SECTION 1: Identification of th	SECTION 1: Identification of the substance/mixture and of the company/undertaking						
<u>1.1. Product identifier</u> SRS Ersolan 100							
1.2. Relevant identified uses of the	e 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 s	afety data sheet						
Company name:	SRS Schmierstoff Vertrieb GmbH						
Street:	Neuenkirchener Straße 8						
Place:	D-48497 Salzbergen						
Telephone:	05976 - 945-0						
Responsible Department:	Abt. Produktsicherheit: info.reach@srs-oil.de						
1.4. Emergency telephone	Gift-Informationszentrum Nord (Göttingen) - Telefon 0551-19240						
<u>number:</u>							

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 Polysulfides, di-tert-dodecyl. 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				
	EC No	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)				
68425-15-0	Polysulfides, di-tert-dodecyl				
	270-335-7		01-2119540516-41		
	Skin Sens. 1B; H317				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name				
	Specific Conc. L	Specific Conc. Limits, M-factors and ATE			
68425-15-0	270-335-7	Polysulfides, di-tert-dodecyl	0.5 - < 1 %		



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inhalation: LC50 = > 15,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = > 2000 mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In 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 (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

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

5.3. Advice for firefighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ventilate affected area. Special danger of slipping by leaking/spilling product.



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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. 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

PNEC values

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CAS No	Name of agent				
Environmental	compartment	Value			
68425-15-0 Polysulfides, di-tert-dodecyl					
Freshwater sediment 3,85 mg/kg		3,85 mg/kg			
Marine sediment 0,		0,385 mg/kg			
Secondary poisoning 6		66,7 mg/kg			
Micro-organisr	Micro-organisms in sewage treatment plants (STP) 10				

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





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.

Thermal hazards

Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over



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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	No information available.	
boiling range:			
Flammability:		No information available.	
Lower explosion limits:		No information available.	
Upper explosion limits:		No information available.	
Flash point:			ISO 2592
Auto-ignition temperature:		No information available.	
Decomposition temperature:		No information available.	
pH-Value:		No information available.	
Viscosity / kinematic: (at 40 °C)		99,8 mm²/s	DIN EN ISO 3104
Water solubility: Solubility in other solvents		Immiscible	
No information available.			
Partition coefficient n-octanol/wate	er:	No information available.	
Vapour pressure: (at 20 °C)		No information available.	
Vapour pressure: (at 50 °C)		No information available.	
Density (at 15 °C):		0,8808 g/cm ³	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 physi	ical 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.	

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Viscosity / dynamic:

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-21 °C ASTM D 5985 No information available. No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Pour point:

Flow time:

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

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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

ATEmix calculated

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

CAS No	Chemical name					
	Exposure route Dose Species Source Method					
68425-15-0	Polysulfides, di-tert-dodecyl					
oral LD50 > 2000 Rat. mg/kg				Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit.	ECHA Dossier	
	inhalation (4 h) dust/mist	LC50 mg/l	> 15,5	Rat.	ECHA Dossier	

Irritation and corrosivity

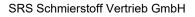
Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met. Contains Polysulfides, di-tert-dodecyl. May produce an allergic reaction. 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.





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Reproductive toxicity: Based on available data, the classification criteria are not met. Polysulfides, di-tert-dodecyl:

In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = positive , OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = negative Literature information: REACH Dossier Developmental toxicity/teratogenicity: Species: Rat; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 1000 mg/kg; 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.

Polysulfides, di-tert-dodecyl:

Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents); Species: Rat; Results: NOAEL 1000 mg/kg; Literature information: REACH Dossier

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

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
68425-15- 0	Polysulfides, di-tert-dodecyl						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	> 100		Pseudokirchneriella subcapitata		OECD Guideline 201

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		-			
68425-15-0	Polysulfides, di-tert-dodecyl					
	OECD 301F / ISO 9408 / EEC 92/69 annex V,	0%		28	ECHA Dossier	
	C.4-D					
	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



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68425-15-0	Polysulfides, di-tert-dodecyl	Polysulfides, di-tert-dodecyl					
BCF							
CAS No	Chemical name	BCF	Species	Source			
68425-15-0	Polysulfides, di-tert-dodecyl	< 0,01	Cyprinus carpio	ECHA Doss	sier		

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

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

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

12.7. Other adverse effects

No information available.

Further information

Ozone depletion potential (ODP): No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

List of Wastes Code - contaminated packaging

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

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:

Inland waterways transport (ADN)

14.1. UN number or ID number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

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

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<u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.	
ir transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.	
4.5. Environmental hazards	5 5 1 5	
ENVIRONMENTALLY HAZARDOUS:	No	
 4.6. Special precautions for user Informations for safe handling see ch Informations for personal protective of 4.7. Maritime transport in bulk according not relevant 	equipment see chapter 8.	
ECTION 15: Regulatory information		
5.1. Safety, health and environmental rec	gulations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVI Entry 75	I):	
Directive 2010/75/EU on industrial emissions:	No information available.	
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.	
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
Additional information		
National regulatory information		
Water hazard class (D): Additional information	1 - slightly hazardous to water	
Regulation (EU) No. 649/2012 of the import of dangerous chemicals: not r	European parliament and of the council concerning the export and relevant	
15.2 Chemical Safety Assessment not applicable.		
SECTION 16: Other information		
-	om the previous version in section(s): 15,16.	
Rev. : 1,0 - 04.05.2015 Rev. : 1,1 - 17.05.2016 Rev. : 2,0 - 06.06.2017		
Rev. : 3,0 - 29.06.2018 Rev. : 3,1 - 27.11.2018		
Rev. : 4,0 - 29.11.2019, Changes in	chapter: 8.1, 10.3, 15.1, 16	



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Rev.: 5,0 - 19.11.2020, Changes in chapter: 16 Rev.: 6,0 - 30.11.2021, Changes in chapter: 3.2, 6.1, 6.3, 8.1, 8.2, 11.2, 12.6, 12.7, 15.1, 16 Rev.: 7.0 - 17.11.2022, Changes in chapter: 2.2, 3.2, 8.1,9.1, 11.1, 12.1, 12.2, 12.3, 12.5, 12.6, 16 Rev.: 8.0 - 13.11.2023, Changes in chapter: 9.1, 11.2, 12.1, 12.7, 16 Rev.: 9,0 - 04.11.2024, Changes in chapter: 12.1, 16 Abbreviations and acronyms Skin Sens: Skin sensitisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures d: dav(s) **DNEL: Derived No Effect Level** IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level 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 https://echa.europa.eu/



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https://cfpub.epa.gov/ecotox/search.cfm http://www.inchem.org/#/search https://pubchem.ncbi.nlm.nih.gov/ http://ccinfoweb.ccohs.ca/rtecs/search.html https://webrigoletto.uba.de/rigoletto/

Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
EUH208	Contains Polysulfides, di-tert-dodecyl. 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.)