# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## SRS Ersolan 320



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

### 1.1. Product identifier

SRS Ersolan 320

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

**Use of the substance/mixture**

gear oil

**Uses advised against**

No information available.

### 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**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container to local/regional/national/international regulations.

**Special labelling of certain mixtures**

EUH208 Contains Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

### 2.3. Other hazards

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 68425-15-0 | Polysulfides, di-tert-dodecyl | | | 0.5 - < 1 % |
| | 270-335-7 | | 01-2119540516-41 | |
| | Skin Sens. 1B; H317 | | | |

| | | | | |
|---|---|---|---|---|
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | | | 0.2 - < 0.3 % |
| | 204-881-4 | | 01-2119565113-46 | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |
| 67-56-1 | methanol* | | | < 0.1 % |
| | 200-659-6 | 603-001-00-X | | |
| | Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370 | | | |

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 | | |
| 68425-15-0 | 270-335-7 | Polysulfides, di-tert-dodecyl | 0.5 - < 1 % |
| | inhalation: LC50 = > 15,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = > 2000 mg/kg | | |
| 128-37-0 | 204-881-4 | 2,6-di-tert-butyl-p-cresol | 0.2 - < 0.3 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 6000 mg/kg | | |
| 67-56-1 | 200-659-6 | methanol* | < 0.1 % |
| | inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = > 1187 - 2769 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10 | | |

**Further Information**

*Substance for which a community occupational exposure limit value applies in the European Union.

## 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.

**For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

**For emergency responders**

No special measures are necessary.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

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

**For containment**

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

**For cleaning up**

Treat the recovered material as prescribed in the section on waste disposal.
Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

No information available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Wear suitable protective clothing. ( See section 8. )
Avoid formation of oil dust.

**Advice on protection against fire and explosion**

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

**Advice on general occupational hygiene**

Clean skin thoroughly after working.
Do not put any product-impregnated cleaning rags into your trouser pockets.

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 substances. Radioactive substances. Infectious substances

**Further information on storage conditions**

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

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limit values**

| CAS No | Name of agent | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---|---|---|---|---|---|---|
| 67-56-1 | Methanol | 200 | 260 | | TWA (8 h) | |

**DNEL/DMEL values**

| CAS No | Name of agent | | | |
|---|---|---|---|---|
| DNEL type | | Exposure route | Effect | Value |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 1,76 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,5 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,435 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,25 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,25 mg/kg bw/day |
| 67-56-1 | methanol* | | | |
| Worker DNEL, acute | | inhalation | local | 130 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 130 mg/m³ |
| Worker DNEL, acute | | inhalation | systemic | 130 mg/m³ |
| Consumer DNEL, long-term | | inhalation | systemic | 26 mg/m³ |
| Consumer DNEL, acute | | inhalation | systemic | 26 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 20 mg/kg bw/day |
| Consumer DNEL, acute | | inhalation | local | 26 mg/m³ |

| | | | |
|---|---|---|---|
| Worker DNEL, acute | dermal | systemic | 20 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | systemic | 4 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | local | 26 mg/m³ |
| Consumer DNEL, acute | oral | systemic | 4 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 4 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 130 mg/m³ |
| Consumer DNEL, acute | dermal | systemic | 4 mg/kg bw/day |

**PNEC values**

| CAS No | Name of agent |
|---|---|
| Environmental compartment | Value |
| 68425-15-0 | Polysulfides, di-tert-dodecyl |
| Freshwater sediment | 3,85 mg/kg |
| Marine sediment | 0,385 mg/kg |
| Secondary poisoning | 66,7 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 1000 mg/l |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol |
| Freshwater | 0,000199 mg/l |
| Freshwater (intermittent releases) | 0,00199 mg/l |
| Marine water | 0,00002 mg/l |
| Freshwater sediment | 0,458 mg/kg |
| Marine sediment | 0,046 mg/kg |
| Secondary poisoning | 8,33 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 0,017 mg/l |
| Soil | 0,054 mg/kg |
| 67-56-1 | methanol* |
| Freshwater | 20,8 mg/l |
| Freshwater (intermittent releases) | 1540 mg/l |
| Marine water | 2,08 mg/l |
| Freshwater sediment | 77 mg/kg |
| Marine sediment | 7,7 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l |
| Soil | 100 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.

**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: | 290 °C | DIN ISO 2592 |
| Auto-ignition temperature: | No information available. | |
| Decomposition temperature: | No information available. | |
| pH-Value: | No information available. | |

| | | |
|---|---|---|
| Viscosity / kinematic: (at 40 °C) | 325,7 mm²/s | DIN EN ISO 3104 |
| Water solubility: | No information available. | |
| Solubility in other solvents | | |
| No information available. | | |
| Partition coefficient n-octanol/water: | No information available. | |
| Vapour pressure: (at 20 °C) | No information available. | |
| Vapour pressure: (at 50 °C) | No information available. | |
| Density (at 15 °C): | 0,8927 g/cm³ | DIN 51757 |
| Bulk density: | No information available. | |
| Relative vapour density: | No information available. | |
| Particle characteristics: | No information available. | |

**9.2. Other information**

**Information with regard to physical hazard classes**

| | | |
|---|---|---|
| Explosive properties | | |
| none | | |
| Sustaining combustion: | No data available | |
| Self-ignition temperature | | |
| Solid: | No information available. | |
| Gas: | No information available. | |
| Oxidizing properties | | |
| none | | |

**Other safety characteristics**

| | | |
|---|---|---|
| Evaporation rate: | No information available. | |
| Solvent separation test: | No information available. | |
| Solvent content: | No information available. | |
| Solid content: | No information available. | |
| Sublimation point: | No information available. | |
| Softening point: | No information available. | |
| Pour point: | -18 °C | ASTM D 5985 |
| Viscosity / dynamic: | No information available. | |
| Flow time: | No information available. | |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.
Refer to chapter 10.5.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

**Toxicocinetics, metabolism and distribution**

No information available.

**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 mg/kg | Rat. | ECHA Dossier | |
| | dermal | LD50 >2000 mg/kg | Rabbit. | ECHA Dossier | |
| | inhalation (4 h) dust/mist | LC50 > 15,5 mg/l | Rat. | ECHA Dossier | |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | | | | |
| | oral | LD50 > 6000 mg/kg | Rat | ECHA Dossier | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | ECHA Dossier | OECD Guideline 402 |
| 67-56-1 | methanol* | | | | |
| | oral | LD50 > 1187 - 2769 mg/kg | Rat | ECHA Dossier | |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation (4 h) vapour | LC50 128,2 mg/l | Rat | ECHA Dossier | |
| | inhalation dust/mist | ATE 0,5 mg/l | | | |

**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.
Reproductive toxicity: Based on available data, the classification criteria are not met.

2,6-di-tert-butyl-p-cresol:
In-vitro mutagenicity: Method: -; Result: negative Literature information: REACH Dossier; Carcinogenicity: Species: Rat.; Method: -; Length of test: 28 d. Result: NOAEL = 25 mg/kg; Literature information: REACH Dossier; Reproductive toxicity: Species: Rat; Method: - (two generation carcinogenicity study with emphasis

on hepatocellular changes in F1 generation); Result: NOAEL =500 mg/kg; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat; Method: -; Result: NOAEL = 100 mg/kg; Literature information: REACH Dossier

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

methanol:
Germ cell mutagenicity: Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test). Species: Mouse.; Result: negative Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 18 m. Species: Mouse.; Result: NOAEC = 1,3 mg/l; Literature information: REACH Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study). Species: Rat. Result: NOAEC = 1,3 mg/l; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study). Species: Rabbit. Result: NOAEL = 1000 mg/kg.

**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.
2,6-di-tert-butyl-p-cresol:
Chronic oral toxicity: Method: - ; Species: Rat; Results: NOAEL = 25 mg/kg; Literature information: REACH Dossier

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

methanol:
Chronic inhalative toxicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 12 m . Exposure time: 20 h/d. Species: Rat.
Result: Result: NOAEC = 1,3 mg/l. Literature information: REACH Dossier

**Aspiration hazard**

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

### 11.2. Information on other hazards

**Endocrine disrupting properties**

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

**Other information**

Frequently or prolonged contact with skin may cause dermal irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d | Species | Source | Method |
| 68425-15-0 | Polysulfides, di-tert-dodecyl | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | Danio rerio | ECHA Dossier | |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | ECHA Dossier | OECD Guideline 201 |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | | | | | |
| | Acute fish toxicity | LC50 0,199 mg/l | 96 h | Oryzias latipes | ECHA Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 0,758 mg/l | 96 h | Raphidocelis subcapitata | ECHA Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 0,48 mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| | Fish toxicity | NOEC 0,053 mg/l | 42 d | Oryzias latipes | ECHA Dossier | |
| | Crustacea toxicity | NOEC 0,023 mg/l | 21 d | Daphnia magna | ECHA Dossier | |
| | Acute bacteria toxicity | EC50 > 10000 mg/l ( ) | 3 h | Activated sludge | ECHA Dossier | OECD Guideline 209 |
| 67-56-1 | methanol* | | | | | |
| | Acute fish toxicity | LC50 15400 mg/l | 96 h | Lepomis macrochirus | ECHA Dossier | EPA-660/3-75-009, 1975 |
| | Acute algae toxicity | ErC50 22000 mg/l | 96 h | Pseudokirchnerella subca | ECHA Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 18260 mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| | Fish toxicity | NOEC 446,7 mg/l | 28 d | Pimephales promelas | SAR and QSAR in Environmental Research, | ECOSAR |
| | Crustacea toxicity | NOEC 208 mg/l | 21 d | Daphnia magna | OECD QSAR Toolbox Report (2013) | |

## 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, C.4-D | 0% | 28 | ECHA Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | | | |
| | OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F | 4,5% | 28 | ECHA Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |
| 67-56-1 | methanol* | | | |
| | other guideline | 76% | 20 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 68425-15-0 | Polysulfides, di-tert-dodecyl | > 6,2 |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | 5,1 |
| 67-56-1 | methanol* | -0,77 |

**BCF**

| CAS No | Chemical name | BCF | Species | Source |
|---|---|---|---|---|
| 68425-15-0 | Polysulfides, di-tert-dodecyl | < 0,01 | Cyprinus carpio | ECHA Dossier |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | 465 | Fish | Chemosphere, 73(11), |
| 67-56-1 | methanol* | < 10 | Leuciscus idus melanotus | Chemosphere 14(10): |

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

### 12.7. Other adverse effects

No information available.

**Further information**

Ozone depletion potential (ODP): No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

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

**List of Wastes Code - contaminated packaging**

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

**Contaminated packaging**

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

## SECTION 14: Transport information

**Land transport (ADR/RID)**

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

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 9006 |
| **14.2. UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **14.3. Transport hazard class(es):** | 9 |
| **14.4. Packing group:** | - |
| Hazard label: | - |
| Classification code: | M12 |

**Marine transport (IMDG)**

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

**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 3, 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)
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3
Observe in addition any national regulations!

**National regulatory information**

| | |
|---|---|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 1 - slightly 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): 11,15,16.

Rev. : 1,0 - 04.05.2015
Rev. : 1,1 - 17.05.2016
Rev. : 2,0 - 06.06.2017
Rev. : 3,0 - 28.06.2018
Rev. : 3,1 - 27.11.2018
Rev. : 4,0 - 29.11.2019 Changes in chapter: 8.1, 10.3, 15.1, 16
Rev. : 5,0 - 19.11.2020, Changes in chapter: 15.1, 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, 15.1, 16
Rev.: 8.0 - 13.11.2023, Changes in chapter: 9.1, 11.2, 12.1, 12.7, 14, 16
Rev.: 9,0 - 04.11.2024, Changes in chapter: 11.1, 12.1, 16

**Abbreviations and acronyms**

Flam. Liq: Flammable liquid
Acute Tox: Acute toxicity
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
d: 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**

https://echa.europa.eu/
https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
https://cfpub.epa.gov/ecotox/search.cfm

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

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

| Classification | Classification procedure |
|---|---|
| Aquatic Chronic 3; H412 | Calculation method |

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

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H317 | May cause an allergic skin reaction. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains Polysulfides, di-tert-dodecyl. May produce an allergic reaction. |

**Further Information**

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
Health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: On basis of test data

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

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