

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Wiolan HS 5

Revision date: 25.01.2024

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

SRS Wiolan HS 5

UFI: 5MUF-57N0-H308-C73C

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

Hydraulic fluids

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

Gift-Informationszentrum Nord (Göttingen) - Telefon 0551-19240

number:

Worldwide emergency information service: GBK GmbH +49 (0)6132-84463

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

Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)

Signal word: Danger

Pictograms:**Hazard statements**

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to local/regional/national/international regulations.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

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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****Hazardous components**

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|------------------|---------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | | | 50 - < 55 % |
| | 265-158-7 | 649-468-00-3 | 01-2119487077-29 | |
| | Asp. Tox. 1; H304 | | | |
| | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | | | 45 - < 50 % |
| | 920-360-0 | | 01-2119448343-41 | |
| | Asp. Tox. 1; H304 EUH066 | | | |
| 128-39-2 | 2,6-di-tert-butylphenol | | | 0.2 - < 0.3 % |
| | 204-884-0 | | 01-2119490822-33 | |
| | Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H315 H400 H410 | | | |
| 104-76-7 | 2-ethylhexan-1-ol* | | | < 0.1 % |
| | 203-234-3 | | 01-2119487289-20 | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H315 H319 H335 | | | |
| 108-88-3 | toluene* | | | < 0.1 % |
| | 203-625-9 | 601-021-00-3 | | |
| | Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304 | | | |
| 108-95-2 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol* | | | < 0.1 % |
| | 203-632-7 | 604-001-00-2 | | |
| | Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2; H341 H331 H311 H301 H314 H373 | | | |

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

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--|---------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 64742-55-8 | 265-158-7 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | 50 - < 55 % |
| | | inhalation: LC50 = > 5,53 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| | 920-360-0 | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | 45 - < 50 % |
| | | inhalation: LC50 = >5,28 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = > 4150 mg/kg | |
| 128-39-2 | 204-884-0 | 2,6-di-tert-butylphenol | 0.2 - < 0.3 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 104-76-7 | 203-234-3 | 2-ethylhexan-1-ol* | < 0.1 % |
| | | inhalation: LC50 = [0,89] mg/l (vapours); inhalation: LC50 = [>0,89-5,3] mg/l (dusts or mists); oral: LD50 = 2047 mg/kg | |
| 108-88-3 | 203-625-9 | toluene* | < 0.1 % |
| | | inhalation: LC50 = > 20 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5580 mg/kg | |
| 108-95-2 | 203-632-7 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol* | < 0.1 % |
| | | inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = [>0,9] mg/l (dusts or mists); dermal: LD50 = 660 mg/kg; oral: LD50 = 282 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3 | |

Further Information

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

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 all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

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

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. 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.

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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 (NO_x)

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.)

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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.

When using do not eat, drink or smoke.

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/m ³ | fib/cm ³ | Category | Origin |
|----------|-------------------|-----|-------------------|---------------------|---------------|--------|
| 104-76-7 | 2-Ethylhexan-1-ol | 1 | 5.4 | | TWA (8 h) | |
| 108-95-2 | Phenol | 2 | 8 | | TWA (8 h) | |
| | | 4 | 16 | | STEL (15 min) | |
| 108-88-3 | Toluene | 50 | 192 | | TWA (8 h) | |
| | | 100 | 384 | | STEL (15 min) | |

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DNEL/DMEL values

| CAS No | Name of agent | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|-------------------------|
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | | | |
| Worker DNEL, long-term | | inhalation | systemic | 2,73 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 5,58 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,97 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | local | 1,19 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 0,74 mg/kg bw/day |
| 128-39-2 | 2,6-di-tert-butylphenol | | | |
| Worker DNEL, long-term | | dermal | systemic | 11,25 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 70,61 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 20,9 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 6,75 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 6,75 mg/kg bw/day |
| 104-76-7 | 2-ethylhexan-1-ol* | | | |
| Worker DNEL, long-term | | inhalation | systemic | 12,8 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 53,2 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 23 mg/kg bw/day |
| Worker DNEL, acute | | inhalation | local | 53,2 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 2,3 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 26,6 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 26,6 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 11,4 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 1,1 mg/kg bw/day |

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PNEC values

| CAS No | Name of agent | Value |
|--|---|-------------|
| Environmental compartment | | |
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | |
| Secondary poisoning | | 9,33 mg/kg |
| 128-39-2 | 2,6-di-tert-butylphenol | |
| Freshwater | | 0.001 mg/l |
| Freshwater (intermittent releases) | | 0.004 mg/l |
| Marine water | | 0.0001 mg/l |
| Freshwater sediment | | 0,317 mg/kg |
| Marine sediment | | 0,0317 |
| Secondary poisoning | | 60 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,679 mg/kg |
| 104-76-7 | 2-ethylhexan-1-ol* | |
| Freshwater | | 0,017 mg/l |
| Freshwater (intermittent releases) | | 0,17 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 0,284 mg/kg |
| Marine sediment | | 0,028 mg/kg |
| Secondary poisoning | | 55 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,047 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

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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: | 132 °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) | 4,871 mm ² /s DIN EN ISO 3104 |
| Water solubility: | Immiscible |
| Solubility in other solvents | |
| No information available. | |
| Partition coefficient n-octanol/water: | No information available. |
| Vapour pressure: (at 20 °C) | No information available. |
| Vapour pressure: (at 50 °C) | No information available. |

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| | |
|---------------------------|-----------------------------------|
| Density (at 15 °C): | 0,856 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 physical hazard classes**Explosive properties
noneSustaining combustion: No data available
Self-ignition temperatureSolid: 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: | -42 °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 reactionsNo 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.

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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 |
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | ECHA Dossier | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | ECHA Dossier | OECD Guideline 402 |
| | inhalation (4 h) dust/mist | LC50 > 5,53 mg/l | Rat | ECHA Dossier | OECD Guideline 403 |
| | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | | | | |
| | oral | LD50 > 4150 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | ECHA Dossier | |
| | inhalation (4 h) dust/mist | LC50 > 5,28 mg/l | Rat | ECHA Dossier | |
| 128-39-2 | 2,6-di-tert-butylphenol | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | ECHA Dossier | OECD 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | ECHA Dossier | |
| 104-76-7 | 2-ethylhexan-1-ol* | | | | |
| | oral | LD50 2047 mg/kg | Rat. | ECHA Dossier | OECD 401 |
| | inhalation (4 h) vapour | LC50 [0,89] mg/l | Rat. | ECHA Dossier | |
| | inhalation (4 h) dust/mist | LC50 [>0,89-5,3] mg/l | Rat. (OECD 403) | ECHA Dossier | |
| 108-88-3 | toluene* | | | | |
| | oral | LD50 5580 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 > 5000 mg/kg | Rabbit | ECHA Dossier | |
| | inhalation (4 h) vapour | LC50 > 20 mg/l | Rat | ECHA Dossier | |
| 108-95-2 | phenol; carboic acid; monohydroxybenzene; phenylalcohol* | | | | |
| | oral | LD50 282 mg/kg | Mouse. | Horikawa 1975 | |
| | dermal | LD50 660 mg/kg | Rat | ECHA Dossier | OECD Guideline 402 |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation (4 h) dust/mist | LC50 [>0,9] mg/l | Rat | ECHA Dossier | OECD Guideline 403 |

Irritation and corrosivity

Based on available data, the classification criteria are not met.
Repeated exposure may cause skin dryness or cracking.

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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.

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

In vitro mutagenicity/genotoxicity:

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

Results: negative / positive

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

Results: negative

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

Results: negative / positive

Literature information: REACH Dossier

In vivo mutagenicity/genotoxicity

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Results: negative ; Literature information: REACH Dossier

Reproductive toxicity

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

Exposure time: 28d; Species: Rat

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

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Exposure time: 28d; Species: Rat

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

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %):

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test); Result: negative Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies); Result: negative Literature information: REACH Dossier; Reproductive toxicity: Species: Rat; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Result: NOAEL >300 mg/kg; 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

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

STOT-single exposure

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

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STOT-repeated exposure

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

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

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

mg/m³; Literature information: J Appl Toxicol, Vol 11(4), pp 297-302; Subacute dermal toxicity: Method:

OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study); Exposure time: 28d; Species:

Rabbit; Results: NOAEL 1000 mg/kg(bw)/day; Literature information: REACH Dossier; Subchronic oral

toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat;

Results: NOAEL = 125 mg/kg; Literature information: REACH Dossier

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %):

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Species: Rat; Results: NOAEL 750 mg/kg; Literature information: REACH Dossier

2,6-di-tert-butyl-p-cresol:

Chronic oral toxicity: Method: -; Species: Rat; Results: NOAEL = 25 mg/kg; Literature information:

REACH Dossier

Aspiration hazard

May be fatal if swallowed and enters airways.

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**

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| CAS No | Chemical name | | | | | |
|------------|---|--------------------------|-----------|---|--------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | | | | | |
| | Acute fish toxicity | LC50 LL50 > 100 mg/l | 96 h | Pimephales promelas (fathead minnow) | ECHA Dossier | OECD Guideline 203 |
| | Acute crustacea toxicity | EC50 EL50 >10000 mg/l | 48 h | Daphnia magna (Big water flea) | ECHA Dossier | OECD Guideline 202 |
| | Algae toxicity | NOEC NOEL > 100 mg/l | 3 d | Pseudokirchneriella subcapitata | ECHA Dossier | |
| | Crustacea toxicity | NOEC NOEL > 10 mg/l | 21 d | Daphnia magna (Big water flea) | ECHA Dossier | OECD Guideline 211 |
| | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | | | | | |
| | Acute fish toxicity | LC50 LL50 > 1000 mg/l | 96 h | | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 EL50 > 1000 mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| | Fish toxicity | NOEC EL50 > 5000 mg/l | 21 d | | ECHA Dossier | |
| | Crustacea toxicity | NOEC EL50 > 1400 mg/l | 21 d | Daphnia magna | ECHA Dossier | |
| 128-39-2 | 2,6-di-tert-butylphenol | | | | | |
| | Acute fish toxicity | LC50 1,4 mg/l | 96 h | Pimephales promelas | ECHA Dossier | |
| | Acute algae toxicity | ErC50 1,4 mg/l | 72 h | Pseudokirchnerella subcapitata | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 0,45 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 | |
| 104-76-7 | 2-ethylhexan-1-ol* | | | | | |
| | Acute fish toxicity | LC50 17,1 mg/l | 96 h | Leuciscus idus melanotus | ECHA Dossier | EU Method C.1 |
| | Acute algae toxicity | ErC50 11,5 mg/l | 72 h | Desmodesmus subspicatus | ECHA Dossier | EU Method C.3 |
| | Acute crustacea toxicity | EC50 39 mg/l | 48 h | Daphnia magna | ECHA Dossier | EU Method C.2 |
| 108-88-3 | toluene* | | | | | |
| | Acute fish toxicity | LC50 5,5 mg/l | 96 h | Oncorhynchus kisutch | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 3.78 mg/l | 48 h | Ceriodaphnia dubia | ECHA Dossier | |
| 108-95-2 | phenol; carboic acid; monohydroxybenzene; phenylalcohol* | | | | | |
| | Acute fish toxicity | LC50 21,93 mg/l | 96 h | Poecilia reticulata | ECHA Dossier | |
| | Acute algae toxicity | ErC50 61,1 mg/l | 96 h | Pseudokirchneriella subcapitata | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 3,1 mg/l | 48 h | Ceriodaphnia dubia | ECHA Dossier | |
| | Fish toxicity | NOEC 0,077 mg/l | 60 d | Cirrhina mrigala | ECHA Dossier | |

12.2. Persistence and degradability

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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 | | | |
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | | | |
| | OECD Guideline 301 F | 31% | 28 | ECHA Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |
| | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | | | |
| | OECD Guideline 301 F | 60,7% | 28 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| 128-39-2 | 2,6-di-tert-butylphenol | | | |
| | 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). | | | |
| 104-76-7 | 2-ethylhexan-1-ol* | | | |
| | OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F | >60% | 14 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| 108-88-3 | toluene* | | | |
| | other guideline: APHA method No. 219 (1971) | >70% | 20 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| 108-95-2 | phenol; carboic acid; monohydroxybenzene; phenylalcohol* | | | |
| | OECD Guideline 301 C | 62 | 5 | 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 |
|------------|---|---------|
| 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified | > 3,5 |
| | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | > 3,5 |
| 128-39-2 | 2,6-di-tert-butylphenol | 4,5 |
| 104-76-7 | 2-ethylhexan-1-ol* | 2,9 |
| 108-88-3 | toluene* | 2,73 |
| 108-95-2 | phenol; carboic acid; monohydroxybenzene; phenylalcohol* | 1,47 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|--|------|-------------|--------------|
| 108-95-2 | phenol; carboic acid; monohydroxybenzene; phenylalcohol* | 17,5 | Danio rerio | ECHA Dossier |

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

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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: | 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 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

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

15.2 Chemical Safety Assessment
not applicable.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1.

Rev. : 1,0 - 06.05.2015

Rev. : 1,1 - 18.05.2016

Rev. : 2,0 - 06.06.2017

Rev. : 3,0 - 28.06.2018

Rev.: 4,0 - 28.06.2019

Rev.: 4,1 - 24.02.2020, Changes in chapter: 1.2, 3.2, 9.1, 16

Rev.: 4,2 - 07.05.2020, Changes in chapter: 3.2, 9.1, 8.1, 11.1, 12.1, 12.2, 12.3, 16



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Rev.: 5.0 - 03.05.2021, Changes in chapter: 3.2, 6.1, 6.3, 11.2, 12.7, 15.1, 16

Rev.: 6.0 - 13.06.2022, Changes in chapter: 2.3, 8.2, 12.5, 12.6, 16

Rev.: 7,0 - 31.01.2023, Changes in chapter: 9.1,16

Rev.: 7,1 - 10.10.2023, Changes in chapter: 3.2, 8.1, 9.1, 11.1, 12.1, 12.2, 12.3, 12.7, 15, 16

Rev.: 7,2 - 10.01.2024, Changes in chapter: 1.4, 2.2, 12.5, 12.6, 16

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Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

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

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

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)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

WGK: Water Hazard Class (Germany)

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

Muta: Germ cell mutagenicity

Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

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Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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

| Classification | Classification procedure |
|-------------------|--------------------------|
| Asp. Tox. 1; H304 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method. ; H304: On basis of test data

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.)