

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

SRS Violin ATF D

Revision date: 02.05.2023

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

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1.2. Relevant identified uses of the 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 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.

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**

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|--------------|---|--------------|------------------|---------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 64742-56-9 | Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic | | | 85 - < 90 % |
| | 265-159-2 | 649-469-00-9 | 01-2119480132-48 | |
| | Asp. Tox. 1; H304 | | | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | 1 - < 3 % |
| | 265-158-7 | 649-468-00-3 | 01-2119487077-29 | |
| | Asp. Tox. 1; H304 | | | |
| 64742-65-0 | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified | | | 1 - < 3 % |
| | 265-169-7 | 649-474-00-6 | 01-2119471299-27 | |
| | Asp. Tox. 1; H304 | | | |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | | | 0.3 - < 0.5 % |
| | 620-540-6 | | 01-2119510877-33 | |
| | Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410 | | | |
| 218141-16-3 | 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | | | < 0.1 % |
| | 939-485-7 | | 01-2119974116-35 | |
| | Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H400 H410 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--------------|-----------|---|---------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 64742-56-9 | 265-159-2 | Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic | 85 - < 90 % |
| | | inhalation: LC50 = >5,53 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 64742-55-8 | 265-158-7 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | 1 - < 3 % |
| | | inhalation: LC50 = > 5,53 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 64742-65-0 | 265-169-7 | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified | 1 - < 3 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 1218787-32-6 | 620-540-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 0.3 - < 0.5 % |
| | | oral: LD50 = 1200 mg/kg Aquatic Acute 1; H400: M=10 | |
| 218141-16-3 | 939-485-7 | 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | < 0.1 % |
| | | oral: LD50 = 300 - 2000 mg/kg Aquatic Acute 1; H400: M=100 | |

Further Information

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London).

*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)

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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). 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 (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. If required, notify relevant authorities according to all applicable regulations.

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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.

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**

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DNEL/DMEL values

| CAS No | Name of agent | | | |
|--------------------------|---|----------------|----------|-------------------|
| DNEL type | | Exposure route | Effect | Value |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | | | |
| Worker DNEL, long-term | | dermal | systemic | 0,42 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,522 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,15 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,15 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 2,96 mg/m³ |
| 218141-16-3 | 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | | | |
| Worker DNEL, long-term | | inhalation | systemic | 4,9 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,7 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,74 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 |

PNEC values

| CAS No | Name of agent | |
|--|--|--|
| Environmental compartment | Value | |
| 64742-56-9 | Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic | |
| Secondary poisoning | 9,33 mg/kg | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | |
| Secondary poisoning | 9,33 mg/kg | |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | |
| Freshwater | 0,000214 mg/l | |
| Freshwater (intermittent releases) | 0,00087 mg/l | |
| Marine water | 0,000021 mg/l | |
| Freshwater sediment | 1,692 mg/kg | |
| Marine sediment | 0,169 mg/kg | |
| Secondary poisoning | 2 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 1,5 mg/l | |
| Soil | 5 mg/kg | |
| 218141-16-3 | 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | |
| Freshwater | 0,00084 mg/l | |
| Freshwater (intermittent releases) | 0,000827 mg/l | |
| Marine water | 0,000084 mg/l | |
| Freshwater sediment | 3,19 mg/kg | |
| Marine sediment | 0,32 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 1,3 mg/l | |
| Soil | 1,59 mg/kg | |

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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.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

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: | red |
| Odour: | characteristic |

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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: | 212 °C |
| Auto-ignition temperature: | No information available. |
| Decomposition temperature: | No information available. |
| pH-Value: | No information available. |
| Viscosity / kinematic: (at 40 °C) | 36,1 mm ² /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): | 0,872 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

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:

-48 °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.

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10.3. Possibility of hazardous reactions

No hazardous reactions known.
Refer to chapter 10.5.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

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

| CAS No | Chemical name | | | | |
|--------------|--|-----------------------|---------|--------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 64742-56-9 | Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic | | | | |
| | oral | LD50 >5000 mg/kg | | ECHA Dossier | |
| | dermal | LD50 >5000 mg/kg | Rabbit | ECHA Dossier | |
| | inhalation (4 h) dust/mist | LC50 >5,53 mg/l | | ECHA Dossier | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | | |
| | 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 |
| 64742-65-0 | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified | | | | |
| | oral | LD50 >5000 mg/kg | Rat | ECHA Dossier | OECD 401 |
| | dermal | LD50 >2000 mg/kg | Rabbit | ECHA Dossier | OECD 402 |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | | | | |
| | oral | LD50 1200 mg/kg | Rat | ECHA Dossier | OECD Guideline 425 |
| 218141-16-3 | 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | | | | |
| | oral | LD50 300 - 2000 mg/kg | Rat | ECHA Dossier | OECD Guideline 423 |

Irritation and corrosivity

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

Sensitising effects

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



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Carcinogenic/mutagenic/toxic effects for reproduction

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

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

In vitro mutagenicity/genotoxicity:

Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative Literature information: ECHA Dossier; Chronic dermal toxicity: Exposure time: ~546 d; Species: Mouse.; Method: OECD Guideline 451; Result: Carcinogenicity = negative Literature information: ECHA Dossier; Exposure route: oral. Species: Rat.; Method: OECD Guideline 421; Result: NOAEL >1000 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Exposure route: dermal. Species: Rat.; Method: OECD Guideline 414; Result: NOAEL >2000 mg/kg; Literature information: ECHA Dossier

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

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: ECHA Dossier

In vivo mutagenicity/genotoxicity

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Results: negative ; Literature information: ECHA 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: ECHA 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: ECHA Dossier

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

In vitro mutagenicity/genotoxicity:

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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

-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Result: negative Literature information: ECHA Dossier

naphthalene:

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Result: negative

In vivo mutagenicity/genotoxicity

Method: OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

Species: Rat

Result: negative

Literature information: ECHA Dossier

Carcinogenicity:

Method: -

Species: Rat

Exposure duration: 2 years

Result: positive

Literature information: ECHA Dossier

Developmental toxicity/teratogenicity:

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Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat

Exposure duration: 20 d.

Results: LOAEL = 50 mg/kg

Literature information: ECHA Dossier

STOT-single exposure

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

STOT-repeated exposure

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

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

Subchronic oral toxicity: Exposure time: 90d; Species: Sprague-Dawley Rat.; Method: OECD Guideline 408;

Result: LOAEL = 125 mg/kg; Literature information: ECHA Dossier

Subacute inhalative toxicity :

Exposure time: 28d; Species: Sprague-Dawley Rat.; Result: NOAEC > 980 mg/m³; Literature information:

ECHA Dossier; Subacute dermal toxicity: Exposure time: 28d; Species: Rabbit; Method: OECD Guideline 410;

Result: NOAEL 1000 mg/kg; Literature information: ECHA Dossier

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

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: ECHA 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: ECHA Dossier

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

Subacute inhalative toxicity :

Method: -

Exposure time: 28d

Species: Rat

Results: > 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: 1000 mg/kg

Literature information: ECHA Dossier

naphthalene:

Subchronic oral toxicity:

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

Species: Rat

Exposure duration: 90 d.

Result: NOAEL = 200 mg/kg

Literature information: ECHA Dossier

1101.B111237:

Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Species: Rat

Exposure duration: 90 d.

Result: NOEL = 300 mg/kg

Literature information: ECHA Dossier

Aspiration hazard

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

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11.2. Information on other hazards**Endocrine disrupting properties**

No information available.

Other information

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information**12.1. Toxicity**

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment. Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment on the basis of test data, expert judgement or analogy assessments.

| CAS No | Chemical name | | | | | |
|--------------|--|-----------------------|-----------|---|--------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64742-56-9 | Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic | | | | | |
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | Pimephales promelas | ECHA Dossier | |
| | Acute algae toxicity | ErC50 >100 mg/l | 72 h | Pseudokirchnerella subcapitata | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 >10000 mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| | Crustacea toxicity | NOEC 10 mg/l | 21 d | Daphnia magna | ECHA Dossier | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | | | |
| | 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 |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | | | | | |
| | Acute fish toxicity | LC50 0,6 mg/l | 96 h | Danio rerio | ECHA Dossier | READ ACROSS |
| | Acute algae toxicity | ErC50 0,0867 mg/l | 72 h | Pseudokirchneriella subcapitata | ECHA Dossier | READ ACROSS |
| | Crustacea toxicity | NOEC 0,32 mg/l | 21 d | Daphnia magna | ECHA Dossier | READ ACROSS |
| | Acute bacteria toxicity | (EC50 167 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | ECHA Dossier | READ ACROSS |

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.

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| CAS No | Chemical name | | | |
|--------------|--|-------|----|--------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 64742-56-9 | Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic | | | |
| | OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C | 2-4% | 28 | ECHA Dossier |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | |
| | OECD Guideline 301 F | 31% | 28 | ECHA Dossier |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | | | |
| | OECD Guideline 301 D | 52% | 28 | ECHA Dossier |

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|--------------|---|-----------|
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | > 3,5 |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 3,6 |
| 218141-16-3 | 3-((C9-11-iso, C10-rich)alkyloxy)propan-1-amine | ca. -0,34 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------------|---|-------|---------|--------------------|
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 110,2 | | QSAR result (2010) |

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.

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.

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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

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

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

Information according to 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).

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Water hazard class (D): 2 - obviously 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**

Rev.: 1,0 - 12.04.2015
Rev.: 1,01 - 28.04.2015
Rev.: 1,1 - 10.05.2016
Rev.: 2,0 - 02.06.2017
Rev.: 3,0 - 27.06.2018
Rev.: 4,0 - 25.06.2019
Rev.: 5,0 - 25.06.2020; Changes in chapter: 16
Rev.: 6,0 - 08.02.2021; Changes in chapter: 2.2, 3.2, 8.1, 11.1, 12.1, 12.2, 12.3, 15.1, 16
Rev.: 7,0 - 04.02.2022, Changes in chapter: 2.3, 3.2, 6.1, 6.3, 8.2, 11.2, 12.5, 12.6, 12.7, 15.1, 16
Rev.: 8,0 - 30.01.2023, Changes in chapter: 2.2, 3.2, 9.1, 8.1, 11.1, 12.1, 12.2, 12.3, 15.1, 16
Rev.: 8,1 - 02.05.2023, Changes in chapter: 3.2, 12.1, 14, 16

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)

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REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

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)

| | |
|------|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| 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. |

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