

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

1.1 Product identifier

automatic transmission fluid (ATF)
Article number: 32600, 32605, 194470

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

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Ferdinand Bilstein GmbH + Co. KG
Wilhelmstr. 47
58256 Ennepetal / GERMANY
Phone +49 2333 911-0
Fax +49 2333 911-444
Homepage www.febi.com
E-mail info@febi.com

Address enquiries to

Technical information info@febi.com

Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

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 approved disposal company or municipal collection point.

2.3 Other hazards

Physico-chemical hazards

No particular hazards known.

Human health dangers

Frequent persistent contact with the skin can cause skin irritation.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards

Does not contain any PBT or vPvB substances.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other hazards

No particular hazards known.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

| Range [%] | Substance |
|---------------|--|
| 25 - 50 | Distillates (petroleum), hydrotreated light paraffinic CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX GHS/CLP: Asp. Tox. 1: H304 |
| 1 - < 2,5 | Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS: 398141-87-2, EINECS/ELINCS: 800-172-4, Reg-No.: 01-2119969520-35-XXXX GHS/CLP: Aquatic Chronic 2: H411 |
| 0,01 - < 0,25 | C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS: 1213789-63-9, EINECS/ELINCS: 627-034-4, Reg-No.: 01-2119473797-19-XXXX GHS/CLP: Acute Tox. 4: H302 - Asp. Tox. 1: H304 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - STOT SE 3: H335 - STOT RE 2: H373 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 10, M-Factor (chronic): 10 |
| 0,01 - < 0,25 | Alkyl thiophosphites EINECS/ELINCS: 424-820-7, Reg-No.: 01-0000017126-75-XXXX GHS/CLP: Skin Corr. 1B: H314 - Acute Tox. 4: H312 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M-Factor (acute): 10, M-Factor (chronic): 10 |

Comment on component parts

For full text of H-statements: see SECTION 16.
Contains less than 3% w/w DMSO-extract (only for mineral oils)

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|---------------------|---|
| General information | Take off contaminated clothing and wash before reuse. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek medical treatment. |
| Skin contact | When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists. |
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Do not induce vomiting. Seek medical advice immediately. Rinse out mouth and give plenty of water to drink. |

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

| | |
|---|--|
| Suitable extinguishing media | Foam, dry powder, water spray jet, carbon dioxide. |
| Extinguishing media that must not be used | Full water jet. |

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Sulphur oxides (SO_x).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Some risk of slipping due to spillage of product.
Forms slippery surfaces with water.
Use personal protective equipment.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. oil binder).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.
Use only in well-ventilated areas.
Use solvent-resistant equipment.
The product is combustible.
Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Cloths contaminated with product should not be kept in trouser pockets.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic |
| CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX |
| Long-term exposure: 5 mg/m ³ , ACGIH TLV (OIL MIST) |

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

| |
|--|
| Substance |
| Alkyl thiophosphites |
| Industrial, inhalative, Long-term - systemic effects, 1,76 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day |
| general population, inhalative, Long-term - systemic effects, 0,43 mg/m ³ |
| general population, dermal, Long-term - systemic effects, 0,25 mg/kg bw/day |
| general population, oral, Long-term - systemic effects, 0,25 mg/kg bw/day |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| Industrial, inhalative, Long-term - systemic effects, 2,73 mg/m ³ |
| Industrial, inhalative, Long-term - local effects, 5,58 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 0,97 mg/kg bw/day |
| general population, oral, Long-term - systemic effects, 0,74 mg/kg bw/day |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| Industrial, inhalative, Long-term - systemic effects, 24,7 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 350 mg/kg bw/day |
| general population, inhalative, Long-term - systemic effects, 4,35 mg/m ³ |
| general population, dermal, Long-term - systemic effects, 125 mg/kg bw/day |
| general population, oral, Long-term - systemic effects, 2,5 mg/kg bw/day |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| Industrial, inhalative, Long-term - local effects, 1 mg/m ³ |
| Industrial, inhalative, Acute - local effects, 1 mg/m ³ |
| Industrial, inhalative, Long-term - systemic effects, 0,38 mg/m ³ |
| general population, inhalative, Long-term - systemic effects, 0,035 mg/m ³ |
| general population, oral, Long-term - systemic effects, 40 µg/kg bw/d |

PNEC

| |
|--|
| Substance |
| Alkyl thiophosphites |
| freshwater, 900 ng/l |
| seawater, 90 ng/l |
| sewage treatment plants (STP), 54 mg/l |
| sediment (freshwater), 0,073 mg/kg |
| sediment (seawater), 0,007 mg/kg |
| soil, 0,015 mg/kg |
| oral (food), 10 mg/kg |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| oral (food), 9,33 mg/kg food |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| freshwater, 2,4 µg/L |
| seawater, 330 ng/L |
| sewage treatment plants (STP), 100 mg/L |
| sediment (freshwater), 433 µg/kg sediment dw |

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| |
|--|
| sediment (seawater), 59.6 µg/kg sediment dw |
| soil, 85.3 µg/kg soil dw |
| oral (food), 111.11 mg/kg food |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| freshwater, 0,26 µg/L |
| seawater, 0,026 µg/L |
| sewage treatment plants (STP), 550 µg/L |
| sediment (freshwater), 3,76 mg/kg dw |
| sediment (freshwater), 0,376 mg/kg dw |
| soil, 10 mg/kg dw |

8.2 Exposure controls

| | |
|--|---|
| Additional advice on system design | Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | Safety glasses. (EN 166:2001) |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,4 mm: Neoprene, >480 min (EN 374-1/-2/-3). |
| Skin protection | Light protective clothing. |
| Other | Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. |
| Respiratory protection | not applicable |
| Thermal hazards | No information available. |
| Delimitation and monitoring of the environmental exposition | Comply with applicable environmental regulations limiting discharge to air, water and soil. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--------------------------------------|
| Physical state | liquid |
| Form | liquid |
| Color | red |
| Odor | characteristic |
| Odour threshold | No information available. |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point or initial boiling point and boiling range [°C] | No information available. |
| Flash point [°C] | 210 °C / 410 °C (EN ISO 2592) |
| Flammability | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/cm³] | 0,84 (DIN 51757) (15 °C / 59,0 °F) |
| Relative density | No information available. |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | insoluble |
| Solubility other solvents | No information available. |
| Partition coefficient n-octanol/water (log value) | not applicable |
| Kinematic viscosity | 29 mm²/s, 40 °C / 104 °F (DIN 51562) |
| Relative vapour density | No information available. |
| Melting point [°C] | No information available. |
| Auto-ignition temperature [°C] | not applicable |
| Decomposition temperature [°C] | No information available. |
| Particle characteristics | not applicable |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Strong oxidizing agent.
Strong basic compounds
Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity

| |
|--|
| Product |
| oral, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Alkyl thiophosphites |
| LD50, oral, Rat, > 2000 mg/kg |
| NOAEL, oral, Rat, 50 - 150 mg/kg bw/day |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| LD50, oral, Rat, 5000 mg/kg bw |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| LD50, oral, Rat, > 10,267 g/kg bw, Study |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| LD50, oral, Rat, 1200 - 2000 mg/kg bw |

Acute dermal toxicity

| |
|--|
| Product |
| dermal, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Alkyl thiophosphites |
| LD50, dermal, Rabbit, > 500 mg/kg |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| LD50, dermal, Rabbit, > 2000 - 5000 mg/kg bw |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| LD10, dermal, Rabbit, 4000 - 8000 mg/kg bw, Study |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| LD50, dermal, Rat, > 2000 mg/kg bw |

Acute inhalational toxicity

| |
|--|
| Product |
| inhalative, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| LC50, inhalative, Rat, 2,18 - 5,53 mg/L air 4h, 4h |

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| Eye, non-irritating |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| Eye, Rabbit, Study, non-irritating |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| Eye, Causes serious eye damage. |

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| dermal, non-irritating |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |

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| |
|--|
| dermal, Rabbit, Study, non-irritating |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| dermal, corrosive |

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| dermal, non-sensitizing |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| dermal, Guinea pig, OECD 406, non-sensitizing |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| dermal, non-sensitizing |
| inhalative, non-sensitizing |

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| inhalative, no adverse effect observed |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9 |
| inhalative, irritant |

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| NOAEC, inhalative, Rat, 980 mg/m ³ (subacute), no adverse effect observed |
| LOAEL, oral, Rat, 125 mg/kg bw/day, The effects observed are not sufficient for classification. |
| LOAEL, dermal, mouse, 100 mg/kg bw/day (chronic), The effects observed are not sufficient for classification. |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| NOAEL, oral, Rat, 175 mg/kg bw/day, OECD 421, adverse effect observed |

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| in vitro, negativ |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| in vitro, OECD 471, negativ |

Reproduction toxicity - Fertility Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| NOAEL, oral, Rat, 1000 mg/kg bw/d, no adverse effect observed |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| NOAEL, oral, Rat, 600 mg/kg, OECD 421 |

- Development No information available.

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information

none

SECTION 12: Ecological information

Product

12.1 Toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Alkyl thiophosphites

EL50, (48h), Daphnia magna, 0,09 mg/l

EL50, (72h), Selenastrum capricornutum, 0,31 mg/l

LL50, (21d), Daphnia magna, 0,22 mg/l

LL50, (24h), Oncorhynchus mykiss, 2 mg/l

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

NOELR, (14d), Fish, 1 g/L

LL50, (96h), Invertebrates, 10 g/L

LL50, (96h), Fish, 100 mg/L

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2

EC50, (48h), Daphnia magna, 4,6 mg/l (OECD 202)

NOELR, (72h), Algae, 313 µg/L

LL50, (96h), Oncorhynchus mykiss, 2,4 mg/l (OECD 203)

C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9

LC50, (96h), Fish, 60 - 4210 µg/L

EC50, (48h), Invertebrates, 320 - 980 µg/L

EC50, (72h), Algae, 80 - 460 µg/L

NOEC, (21d), Invertebrates, 13 µg/L

12.2 Persistence and degradability

Behaviour in environment compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

Substance

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

(28d), 31 %, OECD 301 F, The product is not readily biodegradable.

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2

Biological degradability:, OECD 301 B, The product is not readily biodegradable.

C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9

(28d), 66 %, OECD 301 B



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12.3 Bioaccumulative potential

No information available.

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| log Pow, > 3,5 |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| BCF, 31 |

12.4 Mobility in soil

No information available.

| |
|--|
| Substance |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2 |
| Koc, 1770 |

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

In according to RoHS!
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

130205* mineral-based non-chlorinated engine, gear and lubricating oils

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances
150102
150104

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no



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14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

| | |
|--|--|
| EEC-REGULATIONS | 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707 |
| - Comment on component parts | Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. |
| - Annex XIV (REACH) | According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation. |
| - Annex XVII (REACH) | According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3 |
| TRANSPORT-REGULATIONS | ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025) |
| NATIONAL REGULATIONS (UK): | EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP. |
| - Observe employment restrictions for people | no |
| - VOC (2010/75/CE) | not relevant |

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

- H312 Harmful in contact with skin.
- H410 Very toxic to aquatic life with long lasting effects.
- H400 Very toxic to aquatic life.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H335 May cause respiratory irritation.
- H318 Causes serious eye damage.
- H314 Causes severe skin burns and eye damage.
- H302 Harmful if swallowed.
- H411 Toxic to aquatic life with long lasting effects.
- H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()

Modified position

2.3