

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Top Tec 4100 5W40 205 L
Art.: 3704

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

Relevant identified uses of the substance or mixture:
 Motor oil
 Sector of use (SU):
 SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU21 - Consumer uses: Private households (=general public = consumers)
 SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category (PC):
 PC17 - Hydraulic fluids
 PC24 - Lubricants, greases, release products

Process category (PROC):

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities
 PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 PROC20 - Use of functional fluids in small devices
Article Categories (AC):
 AC99 - Not required.
Environmental Release Category (ERC):
 ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 ERC 7 - Use of functional fluid at industrial site
 ERC 8a - Widespread use of functional fluid (indoor)
 ERC 9b - Widespread use of functional fluid (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH
 Jerg-Vieland-Str. 4
 89081 Ulm-Lehr
 Tel.: (+49) 0731-1420-0
 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de. Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

*** **Telephone number of the company in case of emergencies:**

+49 (0) 700 /24 112 112 (LMFR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH208-Contains C14-16-18 Alkylphenol. May produce an allergic reaction.
 EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
 Product can compose a film on the water surface, which can prevent oxygen exchange.
 Hydrocarbons can be harmful to water.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | |
|--|-----------------------|
| Registration number (REACH) | 01-2119474889-13-XXXX |
| Index | 649-483-00-5 |
| EINECS, ELINCS, NLP | 276-738-4 |
| CAS | 72623-87-1 |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

Distillates (petroleum), hydrotreated heavy paraffinic

| | |
|---|-----------------------|
| Registration number (REACH) | 01-2119484627-25-XXXX |
| Index | 649-467-00-8 |
| EINECS, ELINCS, NLP | 265-157-1 |
| CAS | 64742-54-7 |
| content % | 0.5-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

Distillates (petroleum), hydrotreated light paraffinic

| | |
|---|-----------------------|
| Registration number (REACH) | 01-2119487077-29-XXXX |
| Index | 649-468-00-3 |
| EINECS, ELINCS, NLP | 265-158-7 |
| CAS | 64742-55-8 |
| content % | 0.5-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

With long-term contact

Drying of the skin.

Irritation of the skin.

With oil mist formation:

Irritation of the respiratory tract

Ingestion:

Nausea

Gastrointestinal disturbances

Vomiting

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Foam

Dry extinguisher

High volume water jet

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Hydrogen sulphide

Oxides of carbon

Oxides of nitrogen

Oxides of sulphur

Toxic pyrolysis products.

Hot product gives off combustible vapours.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

Do not carry cleaning cloths soaked in product in trouser pockets.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Take measures against electrostatic charging, if appropriate.

Do not heat to temperatures close to flash point.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Protect against moisture and store closed.

Protect from direct sunlight and warming.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Oil mist, mineral | Content % |
|--|--------------------------------------|------------------------|
| WEL-TV04: 5 mg/m ³ (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: --- | --- |
| Monitoring procedures: | - Draeger - Oil Mist 1/a (67 83 031) | |
| BMGV: --- | | Other information: --- |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|--------------------------|------------|-------|-------------------|------|
| | | | | | | |
| Consumer | Human - oral | Long term, local effects | PNEC | 9.33 | mg/kg feed | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 1.2 | mg/m ³ | 24h |
| | Human - inhalation | Long term, local effects | DNEL | 5.4 | mg/m ³ | 8h |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|--------------------------|------------|-------|-------------------|------|
| Consumer | Environment - oral (animal feed) | | PNEC | 9,33 | mg/kg | |
| | Human - inhalation | Long term, local effects | DNEL | 1,2 | mg/m ³ | 24h |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 5,58 | mg/m ³ | 8h |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Consumer | Environment - oral (animal feed) | | PNEC | 9,33 | mg/kg feed | |
| | Human - inhalation | Long term, local effects | DNEL | 1,19 | mg/m ³ | |
| Workers / employees | Human - oral | Long term, systemic effects | DNEL | 0,74 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,97 | mg/kg bw/day | |
| | Human - inhalation | Long term, systemic effects | DNEL | 2,7 | mg/m ³ | |

(8) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).
 (10) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE).
 (11) = Inhalable fraction (Directive 2004/37/CE).
 (12) = Inhalable fraction, Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0.002 mg Cd/g creatinine in urine (Directive 2004/37/CE).
 (13) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
 (14) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
 (15) = Biological monitoring guidance value EH40, BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma, Sk = Can be absorbed through skin, Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
 These are specified by e.g. BS EN 14042.
 BS EN 14042: "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
 Eye/face protection:
 Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.
 Skin protection - Hand protection:
 Protective gloves, oil resistant (EN 374).

Recommended
 Protective nitrile gloves (EN 374).
 Permeation time (penetration time) in minutes:
 >480
 Minimum layer thickness in mm:
 0,5
 Protective hand cream recommended.
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.
 Skin protection - Other:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).
 Respiratory protection:
 Normally not necessary.
 With oil mist formation:
 Filter A P2 (EN 14387), code colour brown, white
 Observe wearing time limitations for respiratory protection equipment.
 Thermal hazards:
 Not applicable

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:
 Liquid
 Colour:
 Brown
 Characteristic
 Not determined
 Odour:
 Not determined
 pH-value:
 Not determined
 Melting point/freezing point:
 Not determined
 Initial boiling point and boiling range:
 Not determined
 Flash point:
 236 °C
 Evaporation rate:
 Not determined
 Flammability (solid, gas):
 n.a.
 Lower explosive limit:
 Not determined
 Upper explosive limit:
 Not determined
 Vapour pressure:
 Not determined
 Vapour density (air = 1):
 0,855 g/ml
 Density:
 n.a.
 Bulk density:
 Not determined
 Solubility(ies):
 Insoluble
 Water solubility:
 Not determined
 Partition coefficient (n-octanol/water):
 Not determined
 Auto-ignition temperature:
 Not determined
 Decomposition temperature:
 88,6 mm2/s (40 °C)
 Viscosity:
 14,4 mm2/s (100 °C)
 Explosive properties:
 Product is not explosive.
 Oxidising properties:
 No

9.2 Other information

Miscibility: Not determined
 Fat solubility / solvent: Not determined
 Conductivity: Not determined
 Surface tension: Not determined
 Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No decomposition if used as intended.

10.4 Conditions to avoid

Protect from humidity.

Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|---------|----------|--------------------------------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5,53 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |

| Skin corrosion/irritation: | Rabbit | | | | Not irritant. Repeated exposure may cause skin dryness or cracking. | |
|---|------------|-------|---------|----------|---|----------------------|
| Serious eye damage/irritation: | Rabbit | | | | Not irritant | |
| Respiratory or skin sensitisation: | Guinea pig | | | | No (skin contact) | |
| Germ cell mutagenicity: | | | | | Negative | |
| Germ cell mutagenicity: | | | | | Negative | |
| Germ cell mutagenicity: | | | | | Negative | |
| Germ cell mutagenicity: | | | | | Negative | |
| Carcinogenicity: | | | | | Negative | |
| Carcinogenicity: | | | | | Negative | |
| Reproductive toxicity: | | | | | Negative | |
| Reproductive toxicity: | | | | | Negative | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | Negative | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | Negative | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | Negative | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | Negative | |
| Aspiration hazard: | | | | | Asp. Tox. 1 | |
| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 420 (Acute Oral Toxicity - Fixe Dose Procedure) | Analogous conclusion |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | 5,53 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |

| | | | | |
|---|-------|------------|--|---|
| Serious eye damage/irritation: | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) Analogous conclusion |
| Germ cell mutagenicity: | | Mouse | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| Carcinogenicity: | | Rat | OECD 451 (Carcinogenicity Studies) | Negative, Analogous conclusion |
| Reproductive toxicity: | | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative Analogous conclusion |
| Aspiration hazard: | | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Yes |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | LOAEL | Rat | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day) | Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | Rabbit | | Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | Rat | | Dust, Mist, Analogous conclusion |

| | | | | |
|---|-------|--------|--|-----------------------------------|
| Reproductive toxicity: | | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Negative, Analogous conclusion |
| Reproductive toxicity (Developmental toxicity): | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative Analogous conclusion |
| Aspiration hazard: | | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | Rat | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day) | Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | Rabbit | | Analogous conclusion |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|----------|------|-------|------|----------|-------------|--|
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and degradability: | | | | | | | Not readily biodegradable (Particulars of main substances contained) |
| 12.3. Bioaccumulative potential: | | | | | | | Concentration in organisms possible. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment: | | | | | | | n.d.a. |
| 12.6. Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | According to the recipe, contains no AOX. |

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|------|--------|------|---------------------------------|--|-------|
| 12.1. Toxicity to fish: | NOEC/NOEL | 96h | >=100 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | LL50 | 96h | > 100 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >10000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >=100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga Growth Inhibition Test) | |

| | | | | | | | |
|--|-----------|-------|-------|------|-------------------------------------|--|--|
| 12.1. Toxicity to algae: | EL50 | 48h | >100 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 46 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| 12.3. Bioaccumulative potential: | Log Kow | | >6 | | | | A notable biological accumulation potential has to be expected (LogPow > 3). No PBT substance. No vPvB substance |
| 12.5. Results of PBT and vPvB assessment | | | | | | | |
| Toxicity to bacteria: | NOEC/NOEL | 10min | >1,93 | mg/l | | DIN 38412 T.8 | |

| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | | |
|--|-----------|------|-------|------|-------------------------------------|--|----------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LL50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | >1000 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | QSAR | Analogous conclusion |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | EL50 | 48h | >100 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 6 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| Other information: | AOX | | 0 | % | | | |

| Distillates (petroleum), hydrotreated light paraffinic | | | | | | | |
|--|-----------|------|-------|------|---------------------|--|----------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LL50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | >1000 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to fish: | LL50 | 96h | >100 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |
| 12.1. Toxicity to fish: | NOEC/NOEL | 14d | 1000 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |

| | | | | | | | |
|--|-----------|-----|------|------|-------------------------------------|--|---|
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 31 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable, Analogous conclusion @20°C |
| 12.3. Bioaccumulative potential: | Log Pow | | >6 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance. No vPvB substance |

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: n.a.

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: Not applicable

14.5. Environmental hazards: Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name: n.a.

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

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Transport by air (IATA)

- 14.2. UN proper shipping name: n.a.
- 14.3. Transport hazard class(es): n.a.
- 14.4. Packing group: Not applicable
- 14.5. Environmental hazards:

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

0,3 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 11, 12

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):
 Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
 H304 May be fatal if swallowed and enters airways.

Asp. Tox. — Aspiration hazard

Any abbreviations and acronyms used in this document:

- acc., acc. to according, according to
- ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
- AOX Adsorbable organic halogen compounds
- approx. approximately
- Art. Art. no. Article number
- ASTM ASTM International (American Society for Testing and Materials)
- BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
- BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
- BSEF The International Bromine Council
- bw body weight
- CAS Chemical Abstracts Service
- CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
- CMR carcinogenic, mutagenic, reproductive toxic
- DMEL Derived Minimum Effect Level
- DNEL Derived No Effect Level
- dw dry weight
- e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

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- EC European Community
- ECHA European Chemicals Agency
- EEC European Economic Community
- EINECS European Inventory of Existing Commercial Chemical Substances
- ELINCS European List of Notified Chemical Substances
- EN European Norms
- EPA United States Environmental Protection Agency (United States of America)
- etc. et cetera
- EU European Union
- EVAL Ethylene-vinyl alcohol copolymer
- Fax, Fax number
- gen. general
- GHS Globally Harmonized System of Classification and Labelling of Chemicals
- GWP Global warming potential
- IARC International Agency for Research on Cancer
- IATA International Air Transport Association
- IBC (Code) International Bulk Chemical (Code)
- IMDG-code International Maritime Code for Dangerous Goods
- incl. including, inclusive
- IUCLD International Uniform Chemical Information Database
- LQ Limited Quantities
- MARPOL International Convention for the Prevention of Marine Pollution from Ships
- n.a. not applicable
- n.av. not available
- n.c. not checked
- n.d.a. no data available
- OECD Organisation for Economic Co-operation and Development
- org. organic
- PBT persistent, bioaccumulative and toxic
- PE Polyethylene
- PNEC Predicted No Effect Concentration
- ppm parts per million
- PVC Polyvinylchloride
- REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
- REACH-IT List-No. 9xx-xxxx No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
- RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
- SVHC Substances of Very High Concern
- Tel. Telephone
- UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
- VOC Volatile organic compounds
- vPvB very persistent and very bioaccumulative
- wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
 No responsibility.

These statements were made by

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