# Cobersol B 62

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

### 1.1. Product identifier

**Trade name/designation:**

Cobersol B 62

**UFI:**
EAYC-780M-P297-5X9P

**Additional information:**
Isoparaffinic hydrocarbon mixture

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

**Use of the substance/mixture:**

Industrial uses:
Manufacture of the substance
Distribution
Chemical formulation and packaging
Coatings and paints, thinners, paint removers
Cleaning agent
Lubricating agent
Metall working fluids / Rolling oils
Fuel
Hydraulic (functional) fluids
Laboratory chemical
Manufacture of rubber products
Polymer processing
Water treatment chemicals

Professional uses:
Coatings and paints, thinners, paint removers
Cleaning agent
Lubricating agent
Metall working fluids / Rolling oils
Agrochemicals
Fuel
Hydraulic (functional) fluids
Chemicals for constructive building industry
Laboratory chemical
Polymer processing
Water treatment chemicals

Consumer uses:
Coatings and paints, thinners, paint removers
Cleaning agent
Agrochemicals
Fuel
Hydraulic (functional) fluids

# Cobersol B 62

## 1.3. Details of the supplier of the safety data sheet

### Supplier (manufacturer/importer/only representative/downstream user/distributor):

**Cölner Benzin Raffinerie Vertriebs GmbH**
Eupener Straße 128-144
50933 Köln
Germany
**Telephone:** +49-221 49704-0
**Telefax:** +49-221 49704-23
**E-mail:** mail@cbr-online.de
**Website:** www.cbr-online.de

**E-mail (competent person):** produktsicherheit@cbr-online.de

## 1.4. Emergency telephone number

Giftnotrufzentrale Bonn - Germany, 24h: +49 2281 9240 (Monday - Sunday, german and english)

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| Aspiration hazard *(Asp. Tox. 1)* | H304: May be fatal if swallowed and enters airways. | Calculation method. |
| Hazardous to the aquatic environment *(Aquatic Chronic 4)* | H413: May cause long lasting harmful effects to aquatic life. | Calculation method. |

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms:**

**GHS08**
Health hazard

**Signal word:** Danger

**Hazard components for labelling:**
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics; Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

| Hazard statements for health hazards | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |

| Hazard statements for environmental hazards | |
|---|---|
| H413 | May cause long lasting harmful effects to aquatic life. |

| Supplemental hazard information | |
|---|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

| Precautionary statements Prevention | |
|---|---|
| P273 | Avoid release to the environment. |

| Precautionary statements Response | |
|---|---|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |

### 2.3. Other hazards

**Adverse physicochemical effects:**

This material can accumulate static charge by flow or agitation and can be ignited by static discharge. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Material can release vapours that readily form flammable mixtures.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

**Adverse human health effects and symptoms:**

IF SWALLOWED: Aspiration hazard! Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). May be irritating to the eyes, nose, throat, and lungs.

**Adverse environmental effects:**

May cause long lasting harmful effects to aquatic life. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**Other adverse effects:**

Special danger of slipping by leaking/spilling product.

## SECTION 3: Composition/information on ingredients

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### 3.2. Mixtures

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| EC No.: 920-901-0<br>REACH No.:<br>01-2119456810-40 | **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics**<br>Asp. Tox. 1 (H304)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, dust/mist) > 5.6 mg/L | 30 – 70<br>% |
| EC No.: 918-167-1<br>REACH No.:<br>01-2119472146-39 | **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics**<br>Aquatic Chronic 4 (H413), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 2,200 mg/kg<br>ATE (inhalation, dust/mist) > 5.6 mg/L | 30 – 70<br>% |

*Full text of H- and EUH-phrases: see section 16.*

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:**

Remove victim out of the danger area. Do not leave affected person unattended. Put victim at rest, cover with a blanket and keep warm.

**Following inhalation:**

If breathing is irregular or stopped, administer artificial respiration. Remove casualty to fresh air and keep warm and at rest.

If unconscious but breathing normally, place in recovery position and seek medical advice.

**In case of skin contact:**

Take off contaminated clothing and wash it before reuse. Wash with plenty of water and soap. Rub greasy ointment into the skin. In case of skin irritation, consult a physician.

**After eye contact:**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**Following ingestion:**
Rinse mouth. Do NOT induce vomiting. Give nothing to eat or drink. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

**Self-protection of the first aider:**
First aider: Pay attention to self-protection!

### 4.2. Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking. The following symptoms may occur: Irritation of the skin, Nausea, Headache, erythema (redness), Cough, Dizziness, Dyspnoea, Unconsciousness, Dizziness, Cyanosis (blue coloured blood), Pneumonia. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Regulation of the blood circulation, possible shock treatment. Subsequent observance for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**
Water mist, Foam, Extinguishing powder, Carbon dioxide (CO2)

**Unsuitable extinguishing media:**
Full water jet

### 5.2. Special hazards arising from the substance or mixture

Combustible liquid. Vapours can form explosive mixtures with air. The vapour is heavier than air and may travel along the ground; distant ignition possible. Burning produces heavy smoke.

**Hazardous combustion products:**
Products from incomplete combustion, fume, Carbon monoxide and Carbon dioxide (CO2).

### 5.3. Advice for firefighters

The measure necessary are to be agreed with local responsible authorities. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers. Co-ordinate fire-fighting measures to the fire surroundings.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Floats up and can ignite again on the water surface.

### 5.4. Additional information

Fire class: B (Fires of liquids or liquid turning substances)

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Personal precautions:**
Provide adequate ventilation. Use personal protection equipment. Remove persons to safety. Remove all sources of ignition. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes and clothes. Take action to prevent static discharges. Eliminate leaks immediately. Special danger of slipping by leaking/ spilling product. Get away from the danger zone and inform emergency personnel.

**Protective equipment:**
Wear anti-static footwear and clothing (EN 1149-5).
Tested protective gloves must be worn.
Use appropriate respiratory protection.

**Emergency procedures:**
The emergency plan set up by company is to be obeyed.

### 6.1.2. For emergency responders

**Personal protection equipment:**
The personal protective clothing must be adapted to the situation.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Collect spillage. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Suppress gases/vapours/mists with water spray jet.

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

**For containment:**
Prevent spread over a wide area (e.g. by containment or oil barriers). Eliminate leaks immediately. Cover drains.

**For cleaning up:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Use non-sparking tools. If accidentally spilled on water, dam the product with booms and skim from the water surface or remove by appropriate inert absorption material.

**Other information:**
Ensure all waste water is collected and treated via a waste water treatment plant. Inform fire service and police if the product enters aquatic environment or sewerage system or has contaminated soil or plants.

### 6.4. Reference to other sections

Personal protection equipment: see section 8. Disposal: see section 13.

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Protective measures

**Advices on safe handling:**
Wear personal protection equipment (refer to section 8). The vapour is heavier than air and may travel along the ground; distant ignition possible.

**Fire prevent measures:**
Fire and explosion prevention measures must be taken. Keep away from sources of ignition - No smoking. Use non-sparking tools. Use explosion-proof electrical equipment. Take action to prevent static discharges.

**Measures to prevent aerosol and dust generation:**
During filling, metering and sampling should be used if possible: Splashproof grounded devices, Devices with local exhaust, closed devices with gas displacement.

**Environmental precautions:**
Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

### Advices on general occupational hygiene

IF ON SKIN: Wash with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. All work processes must always be designed so that the following is as low as possible: Inhalation of vapours or spray/mists.
When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothes. Only allow access to authorised staff.

### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:**
Working places should be designed to allow cleaning at any time. Store in a well-ventilated place. Keep/ Store only in original container. Vapours/aerosols must be exhausted directly at the point of origin. Take action to prevent static discharges. Keep locked up.

**Packaging materials:**
Container: tankers, IBC, Drum, canisters.
Suitable material: Refined steel, C-Steel, Polyethylene (PE), Polypropylene, Teflon.

Unsuitable material: NR (natural rubber, Natural latex), Butyl caoutchouc (butyl rubber), Ethylene propylene diene rubber, polystyrene.

**Requirements for storage rooms and vessels:**
The quality of tanks and storage rooms are to be agreed with the responsible authorities.
Store in a well-ventilated place. Keep container tightly closed. Put lids on containers immediately after use.

**Hints on storage assembly:**
Do not store together with: strong oxidising agents, Food and feedingstuffs

**Storage class (TRGS 510, Germany):** 10 – Combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions:**
Protect from sunlight. Please note the expiry date: min. 1 year.
Storage: at room temperature.

### 7.3. Specific end use(s)

**Recommendation:**
No information available.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|---|---|---|
| TRGS 900 (DE) from 30 Nov 2017 | **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics**<br>EC No.: 920-901-0 | ① 300 mg/m³<br>② 600 mg/m³<br>⑤ (Kohlenwasserstoffe, aliphatisch, C9-C14) |
| TRGS 900 (DE) from 30 Nov 2017 | **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics**<br>EC No.: 918-167-1 | ① 300 mg/m³<br>② 600 mg/m³<br>⑤ (Kohlenwasserstoffe, aliphatisch, C9-C14) |
| TRGS 900 (DE) | **- Hydrocarbon mixtures, use as solvent, additive free: C9-C14 Aliphatics (RCP-Method)**<br>**- Peak limitation: 2 (II)** | ① 300 mg/m³<br>⑤ Mass fraction (wt %): 100 |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Technical measures and the use of appropriate work processes have precedence over the use of personal protective equipment.

#### 8.2.2. Personal protection equipment

**Eye/face protection:**
Close fitting safety glasses with side protection (EN 166).

**Skin protection:**
Hand protection:

Tested protective gloves must be worn (EN 374)
Suitable material:
NBR (Nitrile rubber)
Thickness of the glove material: ≥ 0,4 mm
Permeation time (maximum wear duration): > 480 min

FKM (fluoro rubber)
Thickness of the glove material: 0,7 mm
Permeation time (maximum wear duration): > 480 min

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.Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. Take recovery periods for skin regeneration.

Suitable protective clothing:
Wear fire resistant or flame retardant clothing (EN 14116)
Wear anti-static footwear and clothing (EN 1149)

**Respiratory protection:**

Recommended:
Process within closed systems. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Comply with official, exhaust air regulations.

Respiratory protection necessary at:
- aerosol or mist formation:
Filtering device with filter or ventilator filtering device of type: A

- Insufficient ventilation:
Self-contained respirator

**Thermal hazards:**

Combustible liquid. Vapours can form explosive mixtures with air.

**Other protection measures:**

Selection of personal protective equipment depends on the dangers resulting from the product, the workplace and the handling. Wash hands and face before breaks and after work and take a shower if necessary. Take off contaminated clothing and wash it before reuse. Use safety glasses or safety goggles with side protection when handling.

### 8.2.3. Environmental exposure controls

Environmental exposure is to be kept as low as achievable using technical and organisational measures that have been agreed with the authorities responsible. Do not allow to enter soil, waterways or waste water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

### Appearance

**Physical state:** Liquid
**Colour:** colourless, clear
**Odour:** mild, pleasant
**Odour threshold:** No data available

### Safety relevant basis data

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| pH | *not applicable* | | |
| Melting point | *not applicable* | | |
| Freezing point | *No data available* | | |
| Initial boiling point and boiling range | 184 – 206 °C | | ① DIN EN ISO 3405 |
| Decomposition temperature | *No data available* | | |

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| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| Flash point | 62 °C | | ① DIN EN ISO 2719 |
| Evaporation rate | ≈ 115 | | ① DIN 53170<br>② (Diethyl ether= 1) |
| Auto-ignition temperature | > 200 °C | | ① ASTM E 659 |
| Upper/lower flammability or explosive limits | 0.5 – 6 Vol-% | | |
| Vapour pressure | ≈ 1 hPa | 20 °C | ① calculated |
| Vapour density | > 1 | | ② 1013 hPa (air =1) |
| Density | 765 kg/m³ | 15 °C | ① DIN EN ISO 12185 |
| Bulk density | *not applicable* | | |
| Water solubility | practically insoluble | 20 °C | |
| Partition coefficient: n-octanol/water | *No data available* | | |
| Dynamic viscosity | *not applicable* | | |
| Kinematic viscosity | 1.8 mm²/s | 20 °C | ① ASTM D7042 |
| Solubility(ies): other solvents and solvent mixtures | miscible | 20 °C | |
| Pour point | < -20 °C | | ① ASTM D97 |

**particle characteristics:**
Not applicable

### 9.2. Other information
- Explosive properties: not explosive. In use, may form flammable/explosive vapour-air mixture.

- Oxidising properties: Not oxidising.

### 9.2.1. Information with regard to physical hazard classes
**Flammable liquids:**
Non-flammable. The vapour is heavier than air and may travel along the ground; distant ignition possible.
**Additional information:**
- Conductivity: non-conducting (ASTM D4308 modified).

### 9.2.2. Other safety characteristics

| Parameter | Value | ① Method<br>② Remark |
|---|---|---|
| Temperature Class | T 3 | ① According ATEX Directive<br>② Auto-ignition temperature > 200 °C |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
Information is given in subsection 10.3.

### 10.2. Chemical stability
Stable under normal conditions.

### 10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid
Electrostatic discharge, keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 10.5. Incompatible materials
Strong oxidising agents, incompatible materials.

### 10.6. Hazardous decomposition products
Hazardous decomposition products are not expected to form during normal storage.

## SECTION 11: Toxicological information

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

**Toxicological information**

| **Acute Toxicity Estimate for Mixtures** | |
|---|---|
| **ATE (oral):** >5,000 mg/kg (ATEmix calculated) | |
| **ATE (dermal):** >2,000 – <5,000 mg/kg (ATEmix calculated) | |
| **ATE (inhalation, dust/mist):** >5.6 mg/L (ATEmix calculated) | |
| **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics** | EC No.: 920-901-0 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) (OECD 401) | |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Rabbit) (OECD 402) | |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5.6 mg/L 4 h (Rat) (OECD 403) | |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** | EC No.: 918-167-1 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) (OECD 401) | |
| **$LD_{50}$ dermal:** >2,200 mg/kg (Rabbit) (OECD 402) | |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5.6 mg/L 4 h (Rat) (OECD 403) | |

**Acute oral toxicity:**
No classification
Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**
No classification
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**
No classification
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**
No classification
Causes mild skin irritation.
Based on available data, the classification criteria are not met.
EUH066 - Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/irritation:**
No classification
May cause mild, short-lasting discomfort to eyes.
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:**
Sensitisation to the respiratory tract:
No classification
Is not known as a sensitizer of the respiratory tract.

Skin sensitisation:
No classification
Based on available data, the classification criteria are not met.
Not sensitising.

**Germ cell mutagenicity:**
No classification
Based on available data, the classification criteria are not met.
No indications of human germ cell mutagenicity exist.

**Carcinogenicity:**
No classification
Based on available data, the classification criteria are not met.
No indication of human carcinogenicity.

**Reproductive toxicity:**
No classification
Based on available data, the classification criteria are not met.
No indications of human reproductive toxicity exist.

**STOT-single exposure:**
No classification
Based on available data, the classification criteria are not met.
No known, damaging effects on organs after single exposure.

**STOT-repeated exposure:**
No classification
Based on available data, the classification criteria are not met.
No Known, damaging effects on organs after longer / repeated exposure.

**Aspiration hazard:**
Kinematic viscosity (40°C):< 20,5 mm²/s; Asp. Tox. 1; H304 - May be fatal if swallowed and enters airways.

**Additional information:**
The statement is derived from the properties of the single components. No toxicological data is available for the product as such.

### 11.2. Information on other hazards

**Endocrine disrupting properties:**
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information:**
Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.
Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.
Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

## SECTION 12: Ecological information

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### 12.1. Toxicity

| **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics** EC No.: 920-901-0 |
|---|
| **$LC_{50}$:** >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) (OECD 203) |
| **$EC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) (OECD 202) |
| **$EC_{50}$:** >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) (OECD 201) |
| **NOEC:** =1 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) (OECD 211) |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** EC No.: 918-167-1 |
| **$LC_{50}$:** >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) (OECD 203) |
| **$LC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) (OECD 202) |
| **$EC_{50}$:** >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) (OECD 201) |
| **NOEC:** >1 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) (OECD 211) |

**Aquatic toxicity:**
Aquatic Chronic 4; H413 - May cause long lasting harmful effects to aquatic life.

**Additional ecotoxicological information:**
Do not allow uncontrolled discharge of product into the environment. Do not allow to enter soil, waterways or waste water. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

### 12.2. Persistence and degradability

| **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics** EC No.: 920-901-0 |
|---|
| **Biodegradation:** Yes, slowly |
| **Remark:** Evidence for inherent biodegradability. Degradation rate: 31,3% after 28 days (OECD 301F). |

| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** EC No.: 918-167-1 |
|---|
| **Biodegradation:** Yes, slowly |
| **Remark:** Evidence for inherent biodegradability. Degradation rate: 31% after 28 days (OECD 301F). |

**Biodegradation:**
Evidence for inherent biodegradability. The statement is derived from the properties of the single components.

### 12.3. Bioaccumulative potential

**Bioconcentration factor (BCF):**
Not determined

**Partition coefficient: n-octanol/water:**
No data available

**Accumulation / Evaluation:**
Not determined

### 12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

### 12.5. Results of PBT and vPvB assessment

| **Hydrocarbons, C11-C13, isoalkanes, <2% aromatics** EC No.: 920-901-0 |
|---|
| **Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** EC No.: 918-167-1 |
| **Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

### 12.6. Endocrine disrupting properties

No endocrine disrupting properties for the environment.

### 12.7. Other adverse effects

Flowing product can lead to an accumulation of a film on the water surface that reduces the oxygen exchange and can lead to the death of organisms.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

### 13.1.1. Product/Packaging disposal

### Waste codes/waste designations according to EWC/AVV

**Waste code product**

**Remark:**
Dispose of waste according to applicable legislation. Information concerning disposal refers to the pure, unaltered product. Reprocess when possible, alternatively incinerate in an officially approved incinerator. Issuing an EAK/AVV disposal certificate is the responsibility of the user.

**Waste code packaging**

**Remark:**
The product must not enter the sewage. Avoid release to the environment.

### Waste treatment options

**Appropriate disposal / Product:**
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Consult the appropriate local waste disposal expert about waste disposal.

**Appropriate disposal / Package:**
uncleaned packaging:
Empty vessels ( emptied of residue) remain contaminated and must be disposed of by experts or reconditioned in an approved facility.

**Other disposal recommendations:**
Collection tanks must be clearly labelled with the systematic description of their contents and marked with the corresponding pictograms, H and P phrases. Keep container tightly closed and in a well-ventilated place. Dispose according to regulations.

### 13.2. Additional information
DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| No dangerous good in sense of these transport regulations. | UN 9003 | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| **14.2. UN proper shipping name** | | | |
| No dangerous good in sense of these transport regulations. | SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C (Hydrocarbons, C11-C12, isoalkanes, <2% aromatics) | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es)** | | | |
| not relevant |  9 | not relevant | not relevant |
| **14.4. Packing group** | | | |
| not relevant | | not relevant | not relevant |
| **14.5. Environmental hazards** | | | |
| not relevant | No | not relevant | not relevant |
| **14.6. Special precautions for user** | | | |
| not relevant | **Special Provisions:** - **Limited quantity (LQ):** - **Excepted Quantities (EQ):** - **Classification code:** - **Remark:** Hazard label(s): 9 (F) | not relevant | not relevant |

### 14.7. Maritime transport in bulk according to IMO instruments
No data available

## SECTION 15: Regulatory information

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

### 15.1.1. EU legislation
**Authorisations:**
Not applicable
**Restrictions on use:**
Use restriction according to REACH annex XVII, no.: 3

**Other regulations (EU):**
This product is not assigned to a hazard category.
Is no subject to the Seveso III GL.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]:
Is subject to the VOC GL, deemed to be a volatile organic compound.

### 15.1.2. National regulations

### [DE] National regulations

**Restrictions of occupation**
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)**
Not subject to the Chemicals Restriction Regulation (ChemVerbotsV).

**Störfallverordnung (12. BImschV)**

**for substances contained in the product:**
This product is not assigned to a hazard category.
Not subject to the Hazardous Incident Regulation.

**Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**

**Remark:**
Technische Anleitung zur Reinhaltung der Luft (TA-Luft): 5.2.5

**Water hazard class**

**WGK:**
1 - slightly hazardous to water

**Source:**
Self-classification (mixture; calculation rule).

### 15.2. Chemical Safety Assessment

A chemical safety assessment has been performed for the substance(s) contained in this material and for the material itself.

## SECTION 16: Other information

### 16.1. Indication of changes

| | |
|---|---|
| 3.2. | Mixtures |
| 8.1. | Control parameters |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |

### 16.2. Abbreviations and acronyms

| | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AGW | Threshold Limit Value |
| ASTM | American Society for Testing and Materials |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic, toxic for Reproduction |
| DIN | German Institute for Standardization / German Industrial Standard |
| DNEL | derived no-effect level |
| $EC_{50}$ | Effective Concentration 50% |
| ECHA | European Chemicals Agency |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EN | European Standard |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |

| | |
|---|---|
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| IATA | International Air Transport Association |
| IBC | Intermediate Bulk Container |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| ISO | International Standards Organisation |
| $LC_{50}$ | Lethal (fatal) Concentration 50% |
| $LD_{50}$ | Lethal (fatal) Dose 50% |
| MAK | Maximum concentration in the workplace air (CH) |
| NFPA | National Fire Protection Association |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Cooperation and Development |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation and Authorization of Chemicals |
| RID | Dangerous goods regulations for transport by rail |
| SVHC | substances of very high concern |
| TRGS | Technische Regeln für Gefahrstoffe |
| UN | United Nations |
| UVCB | substance of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very persistent and very bioaccumulative |
| ZNS | central nervous system |

## 16.3. Key literature references and sources for data

- ECHA: European Chemicals Agency
- According to Regulation (EC) No. 1907/2006 (REACH)
- Classification according to Regulation (EC) No 1272/2008 [CLP]
- Land transport (ADR/RID), Air transport (ICAO-TI / IATA-DGR), Sea transport (IMDG), Inland waterway craft (ADN)
- Technical Rules for Hazardous Substances
- Hazardous Substances Ordinance (GefStoffV) (DE)

## 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| Aspiration hazard *(Asp. Tox. 1)* | H304: May be fatal if swallowed and enters airways. | Calculation method. |
| Hazardous to the aquatic environment *(Aquatic Chronic 4)* | H413: May cause long lasting harmful effects to aquatic life. | Calculation method. |

## 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H413 | May cause long lasting harmful effects to aquatic life. |

## 16.6. Training advice

Provide adequate information, instruction and training for operators.

## 16.7. Additional information

The information in this safety data sheet has been established to the best of our knowledge at the time of printing. The information is intended to give you advice on the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials

or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material manufactured in this way, unless expressly stated otherwise.

* Data changed compared with the previous version.