# Safety data sheet
**according to 1907/2006/EC, Article 31**

*Printing date 19.09.2023* *Version number 3.2 (replaces version 3.1)* *Revision: 19.09.2023*

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

· **1.1 Product identifier**

· **Trade name: CARBURETOR CLEAN FLUID**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / the mixture**
Only for proper handling.
Cleaning material/ Detergent

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**

MOTOREX AG
Bern–Zürich–Strasse 31, Postfach
CH–4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

· **Further information obtainable from:** msds@motorex.com
· **1.4 Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

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## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

| | | |
|---|---|---|
| Flam. Liq. 2 | H225 | Highly flammable liquid and vapour. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| Skin Sens. 1 | H317 | May cause an allergic skin reaction. |
| Carc. 2 | H351 | Suspected of causing cancer. |
| STOT SE 3 | H335-H336 | May cause respiratory irritation. May cause drowsiness or dizziness. |
| STOT RE 1 | H372 | Causes damage to organs through prolonged or repeated exposure. |
| Asp. Tox. 1 | H304 | May be fatal if swallowed and enters airways. |
| Aquatic Chronic 2 | H411 | Toxic to aquatic life with long lasting effects. |

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
· **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan
Reaction mass of ethylbenzene and xylene
dipentene
Hydrocarbons, C10-C13, aromatics, >1% naphthalene

(Contd. on page 2)

# Safety data sheet
**according to 1907/2006/EC, Article 31**



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 1)

· **Hazard statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H335-H336 | May cause respiratory irritation. May cause drowsiness or dizziness. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H304 | May be fatal if swallowed and enters airways. |
| H411 | Toxic to aquatic life with long lasting effects. |

· **Precautionary statements**

| | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P321 | Specific treatment (see on this label). |
| P331 | Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/ international regulations. |

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|---|---|---|
| | Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan<br>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 | ≥25-≤50% |
| EC number: 905-588-0<br>Reg.nr.: 01-2119539452-40 | Reaction mass of ethylbenzene and xylene<br>Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 25-50% |
| EC number: 919-446-0<br>Reg.nr.: 01-2119458049-33 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)<br>Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336 | 10% |
| CAS: 138-86-3<br>EINECS: 205-341-0<br>Index number: 601-029-00-7<br>Reg.nr.: 01-2120766421-57 | dipentene<br>Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 | 2.5-7.5% |

(Contd. on page 3)

# Safety data sheet
**according to 1907/2006/EC, Article 31**

Printing date 19.09.2023 Version number 3.2 (replaces version 3.1) Revision: 19.09.2023

**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 2)

| | | |
|---|---|---|
| EC number: 926-273-4<br>Reg.nr.: 01-2119451151-53 | Hydrocarbons, C10-C13, aromatics, >1% naphthalene<br>Carc. 2, H351; Asp. Tox. 1, H304; Aquatic Chronic 2, H411, EUH066 | ≥2.5-<3% |
| CAS: 12645-31-7<br>EINECS: 235-741-0<br>Reg.nr.: 01-2119896587-13 | Phosphoric acid, 2-ethylhexyl ester<br>Skin Corr. 1B, H314 | 1-2.5% |
| CAS: 110-54-3<br>EINECS: 203-777-6<br>Index number: 601-037-00-0 | n-hexane<br>Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336<br>Specific concentration limit: STOT RE 2; H373: C ≥ 5 % | 0.25-1% |
| CAS: 110-82-7<br>EINECS: 203-806-2<br>Index number: 601-017-00-1 | cyclohexane<br>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336 | 0.25-1% |

| · **Regulation (EC) No 648/2004 on detergents / Labelling for contents** | |
|---|---|
| aliphatic hydrocarbons | ≥30% |
| perfumes (DIPENTENE) | ≥5 - <15% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **5.3 Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.



(Contd. on page 4)

**Safety data sheet**
**according to 1907/2006/EC, Article 31**

Printing date 19.09.2023 Version number 3.2 (replaces version 3.1) Revision: 19.09.2023

**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 3)

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
The recommended storage temperature is (deg.C): ≤50°C
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Storage class:** 3
· **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **110-54-3 n-hexane** | |
| WEL | Long-term value: 72 mg/m³, 20 ppm |
| **110-82-7 cyclohexane** | |
| WEL | Short-term value: 1050 mg/m³, 300 ppm<br>Long-term value: 350 mg/m³, 100 ppm |

| · **DNELs** | | |
|---|---|---|
| **Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan** | | |
| Oral | DNEL/general population/Systemic effects/Long-term | 699 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Systemic effects / Long-term | 773 mg/kg/24h (worker) |

(Contd. on page 5)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version number 3.2 (replaces version 3.1) Revision: 19.09.2023

**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 4)

| | | |
|---|---|---|
| | DNEL/general population/Systemic effects/Long-term | 699 mg/kg/24h (consumer) |
| Inhalative | DNEL / Workers / Systemic effects / Long-term | 2,035 mg/m3 (worker) |
| | DNEL/general population/Systemic effects/Long-term | 608 mg/m3 (consumer) |
| **Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)** | | |
| Oral | DNEL/general population/Systemic effects/Long-term | 26 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Systemic effects / Long-term | 44 mg/kg/24h (worker) |
| | DNEL/general population/Systemic effects/Long-term | 26 mg/kg/24h (consumer) |
| Inhalative | DNEL/general population/Systemic effects/Long-term | 71 mg/m3 (consumer) |
| **110-82-7 cyclohexane** | | |
| Oral | DNEL/general population/Systemic effects/Long-term | 59.4 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Systemic effects / Long-term | 2,016 mg/kg/24h (worker) |
| | DNEL/general population/Systemic effects/Long-term | 1,186 mg/kg/24h (consumer) |
| Inhalative | DNEL / Workers / Systemic effects / Long-term | 700 mg/m3 (worker) |
| | DNEL/Workers/Systemic effects/acute-short term | 700 mg/m3 (worker) |
| | DNEL/Workers/Local effects/acute-short term | 700 mg/m3 (worker) |
| | DNEL / Workers / Local Effects / Long-term | 700 mg/m3 (worker) |
| | DNEL/general population/Systemic effects/Long-term | 206 mg/m3 (consumer) |
| | DNEL/general pop/Systemic effects/acute-short term | 412 mg/m3 (consumer) |
| | DNEL/general pop/Local effects/acute-short term | 412 mg/m3 (consumer) |
| | DNEL/general population/Local effects/Long-term | 206 mg/m3 (consumer) |

· **PNECs**

| **110-82-7 cyclohexane** | |
|---|---|
| PNEC / Aquatic organisms / Freshwater | 0.207 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Marine water | 0.207 mg/l (aquatic organisms) |
| PNEC/Aquatic organisms/Sewage treatment plant/STP | 3.24 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (freshwater) | 3.627 mg/kg (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (marine water) | 3.627 mg/kg (aquatic organisms) |
| PNEC / Terrestrial organism / Soil | 2.99 mg/kg (terrestrial organisms) |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Not necessary if room is well-ventilated.
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
· **Hand protection**

Protective gloves

(Contd. on page 6)

**Safety data sheet**
**according to 1907/2006/EC, Article 31**



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 5)

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**
*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

· **Penetration time of glove material**
*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye/face protection**

*safety goggles*

· **Body protection:** *Protective work clothing*

* 

## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · **9.1 Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | *Fluid* |
| · **Colour:** | *Yellow* |
| · **Odour:** | *Characteristic* |
| · **Odour threshold:** | *Not determined.* |
| · **Melting point/freezing point:** | *Undetermined.* |
| · **Boiling point or initial boiling point and boiling range** | *>90 °C (DIN EN ISO 3405)* |
| · **Flammability** | *Highly flammable.* |
| · **Lower and upper explosion limit** | |
| · **Lower:** | *Not determined.* |
| · **Upper:** | *Not determined.* |
| · **Flash point:** | *<-9 °C* |
| · **Decomposition temperature:** | *Not determined.* |
| · **pH** | *Not determined.* |
| · **Viscosity:** | |
| · **Kinematic viscosity** | *Not determined.* |
| · **Consistency** | |
| · **Dynamic:** | *Not determined.* |
| · **Solubility** | |
| · **water:** | *Not miscible or difficult to mix.* |
| · **Partition coefficient n-octanol/water (log value)** | *Not determined.* |
| · **Heat Capacity** | |
| · **Vapour pressure:** | *Not determined.* |
| · **Density and/or relative density** | |
| · **Density at 20 °C:** | *0.803 g/cm³ (ASTM D 4052)* |
| · **Relative density** | *Not determined.* |
| · **Vapour density** | *Not determined.* |
| · **9.2 Other information** | |
| · **Appearance:** | |
| · **Form:** | *Fluid* |

(Contd. on page 7)

# Safety data sheet
**according to 1907/2006/EC, Article 31**



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 6)

| | |
|---|---|
| · **Important information on protection of health and environment, and on safety.** | |
| · **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · **Solvent separation test:** | |
| · **VOC (EC)** | 90.22 % |
| · **Change in condition** | |
| · **Evaporation rate** | Not determined. |

| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Void |
| · **Oxidising gases** | Void |
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Highly flammable liquid and vapour. |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**

| | | |
|---|---|---|
| Oral | LD50 | 8 ml/kg (rat) |
| Dermal | LD50 | 4 ml/kg (rat) |
| | LD50 | 2,800-3,100 mg/kg (rat) |
| Inhalative | LC50 / 4h | 25.2 mg/l (rat) |
| | NOAEC | 8.117-24.3 mg/l (rat) |

(Contd. on page 8)

# Safety data sheet
**according to 1907/2006/EC, Article 31**



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 7)

| **Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)** | | |
|---|---|---|
| Oral | LD50 | 15,000 mg/kg (rat) |
| Dermal | LD50 | 4 ml/kg (rat) |
| | NOAEL | 495 mg/kg/24h (rat) |
| Inhalative | LC50 / 4h | 13.1 mg/l (rat) |
| | NOAEL | 300 ppm (rat) |
| | NOAEC | 690 ppm (rat) |
| | LOAEC | 100-1,293 ppm (rat) |
| **138-86-3 dipentene** | | |
| Oral | LD50 | 5,600 mg/kg (mouse) |
| | | 5,300 mg/kg (rat) |
| Dermal | LD50 | 5,000 mg/kg (rabbit) |
| **110-82-7 cyclohexane** | | |
| Oral | LD50 | 5,000 mg/kg (rat) |
| Dermal | LD50 | 2,000 mg/kg (rabbit) |
| Inhalative | LC50 / 4h | 32.88 mg/l (rat) |
| | LC50 / 4h | 5,540 ppm (rat) |
| | NOAEC | 500-2,000 ppm (mouse) |
| | | 500-7,000 ppm (rat) |

· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **Carcinogenicity** Suspected of causing cancer.
· **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
· **STOT-repeated exposure** Causes damage to organs through prolonged or repeated exposure.
· **Aspiration hazard** May be fatal if swallowed and enters airways.
· **11.2 Information on other hazards**

| · **Endocrine disrupting properties** |
|---|
| None of the ingredients is listed. |

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## SECTION 12: Ecological information

· **12.1 Toxicity**

| · **Aquatic toxicity:** | |
|---|---|
| **Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan** | |
| EC50 | 0.23 mg/l/21d (aquatic invertebrates) |
| EC50 | 0.64 mg/l/48h (aquatic invertebrates) |
| LL50 | 11.4 mg/l/96h (fish) |
| LL50 | 15.8 mg/l/72h (fish) |
| LL0 | 5.1 mg/l/96h (fish) |
| EL50 | 3 mg/l/48h (aquatic invertebrates) |
| EL50 | 12 mg/l/24h (aquatic invertebrates) |
| EL50 | 10-100 mg/l/72h (algae / cyanobacteria) |
| EL0 | 2 mg/l/48h (aquatic invertebrates) |
| EL0 | 10 mg/l/24h (aquatic invertebrates) |
| NOEC | 0.17 mg/l/21d (aquatic invertebrates) |
| NOELR | 2.045 mg/l/28d (fish) |

(Contd. on page 9)

# Safety data sheet
## according to 1907/2006/EC, Article 31



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 8)

| | |
|---|---|
| NOELR | 1 mg/l/21d (aquatic invertebrates) |
| LOEC | 0.32 mg/kg/28d (aquatic invertebrates) |
| **Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)** | |
| EC10 | 0.109-0.248 mg/l/21d (aquatic invertebrates) |
| EC50 | 0.58-1.2 mg/l/96h (algae / cyanobacteria) |
| EC50 | 0.53-0.94 mg/l/72h (algae / cyanobacteria) |
| EC50 | 0.328-0.423 mg/l/21d (aquatic invertebrates) |
| LL50 | 10-30 mg/l/96h (fish) |
| LL50 | 10-30 mg/l/72h (fish) |
| LL50 | 10-30 mg/l/48h (fish) |
| LL50 | 30-100 mg/l/24h (fish) |
| EL50 | 2.5-5.5 mg/l/96h (algae / cyanobacteria) |
| EL50 | 10-22 mg/l/48h (aquatic invertebrates) |
| EL50 | 22-46 mg/l/24h (aquatic invertebrates) |
| NOEC | 0.097-0.372 mg/l/21d (aquatic invertebrates) |
| NOEC | 0.16 mg/l/72h (algae / cyanobacteria) |
| NOEC | 0.16 mg/l/96h (algae / cyanobacteria) |
| NOELR | 0.13 mg/l/28d (fish) |
| NOELR | 0.28-1.4 mg/l/21d (aquatic invertebrates) |
| NOELR | 0.3 mg/l/96h (fish) |
| LOEC | 0.203-0.833 mg/kg/28d (aquatic invertebrates) |
| **138-86-3 dipentene** | |
| NOEC | 100 mg/l/72h (algae)<br>10 mg/l/72h (Daphnia)<br>100 mg/l/72h (fish) |
| **110-82-7 cyclohexane** | |
| LC50 | 4.53 mg/l/96h (fish) |
| EC50 | 0.9-2.4 mg/l/96h (aquatic invertebrates) |
| EC50 | 3.4-9.317 mg/l/72h (algae / cyanobacteria) |
| NOEC | 0.9-0.94 mg/l/72h (algae / cyanobacteria) |

· **12.2 Persistence and degradability** No further relevant information available.

| · **12.3 Bioaccumulative potential** | |
|---|---|
| **Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan** | |
| Biodegradability | 81 % (28d) (Biodegradability) (OECD 301 F) |
| **Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)** | |
| Biodegradability | 74.7 % (28d) (Biodegradability) (OECD 301 F) |
| **110-82-7 cyclohexane** | |
| Partition coefficient | 3.44 [---] (log Kow) (Bioaccumulation) |
| Biodegradability | 77 % (28d) (Biodegradability) (OECD 301 F) |

· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Remark:** Toxic for fish

(Contd. on page 10)

# Safety data sheet
**according to 1907/2006/EC, Article 31**



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 9)

· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

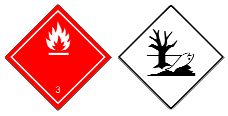
* 
## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

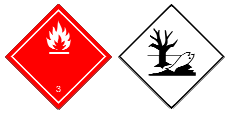
· **Uncleaned packaging:**
· **Recommendation:**
Disposal must be made according to official regulations.
Discharged containers can contain flammable or explosive vapours.

## SECTION 14: Transport information

| | |
|---|---|
| · **14.1 UN number or ID number** | |
| · **ADR/RID/ADN, IMDG, IATA** | UN1300 |
| · **14.2 UN proper shipping name** | |
| · **ADR/RID/ADN** | 1300 TURPENTINE SUBSTITUTE, ENVIRONMENTALLY HAZARDOUS |
| · **IMDG** | TURPENTINE SUBSTITUTE, MARINE POLLUTANT |
| · **IATA** | TURPENTINE SUBSTITUTE |
| · **14.3 Transport hazard class(es)** | |
| · **ADR/RID/ADN** | |




| | |
|---|---|
| · **Class** | 3 (F1) Flammable liquids. |
| · **Label** | 3 |
| · **IMDG** | |




| | |
|---|---|
| · **Class** | 3 Flammable liquids. |

(Contd. on page 11)

# Safety data sheet
## according to 1907/2006/EC, Article 31



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 10)

| | |
|---|---|
| · **Label** | 3 |
| · **IATA** | |
|  | |
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |
| · **14.4 Packing group** | |
| · **ADR/RID/ADN, IMDG, IATA** | II |
| · **14.5 Environmental hazards:** | Product contains environmentally hazardous substances: dipentene, Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane |
| · **Marine pollutant:** | Symbol (fish and tree) |
| · **Special marking (ADR/RID/ADN):** | Symbol (fish and tree) |
| · **14.6 Special precautions for user** | Warning: Flammable liquids. |
| · **Hazard identification number (Kemler code):** | 33 |
| · **EMS Number:** | F-E,S-E |
| · **Stowage Category** | B |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · **Transport/Additional information:** | |
| · **ADR/RID/ADN** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · **Transport category** | 2 |
| · **Tunnel restriction code** | D/E |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · **UN "Model Regulation":** | UN 1300 TURPENTINE SUBSTITUTE, 3, II, ENVIRONMENTALLY HAZARDOUS |

* 

## SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

(Contd. on page 12)

# Safety data sheet
**according to 1907/2006/EC, Article 31**



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 11)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.
No special training instructions to ensure protection of human health and environment are required.

· **purity requirement**
· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS:** Abteilung Produktsicherheit
· **Abbreviations and acronyms:**
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· *** Data compared to the previous version altered.**

## Annex: Exposure scenario 1

· **Short title of the exposure scenario** Industrial use of cleaning agents
· **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
· **Product category** PC35 Washing and cleaning products (including solvent based products)

(Contd. on page 13)

# Safety data sheet
## according to 1907/2006/EC, Article 31



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 12)

· **Process category**
*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*
*PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*
*PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities*
*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*
*PROC10 Roller application or brushing*
*PROC11 Non industrial spraying*
*PROC13 Treatment of articles by dipping and pouring*
*PROC15 Use as laboratory reagent*
· **Environmental release category**
*ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)*
· **Description of the activities / processes covered in the Exposure Scenario**
*See section 1 of the annex to the Safety Data Sheet.*
· **Conditions of use**
· **Duration and frequency** *5 workdays/week.*
· **Physical parameters**
· **Physical state** *Fluid*
· **Concentration of the substance in the mixture** *The substance is main component.*
· **Other operational conditions**
· **Other operational conditions affecting environmental exposure** *No special measures required.*
· **Other operational conditions affecting consumer exposure** *Not required.*
· **Other operational conditions affecting consumer exposure during the use of the product**
*Not applicable.*
· **Risk management measures**
· **Worker protection**
· **Organisational protective measures** *No special measures required.*
· **Technical protective measures** *No special measures required.*
· **Personal protective measures** *No special measures required.*
· **Measures for consumer protection** *No special measures required.*
· **Environmental protection measures**
· **Air** *No special measures required.*
· **Water** *No special measures required.*
· **Disposal measures** *Ensure that waste is collected and contained.*
· **Disposal procedures** *Dispose of product residues with household waste.*
· **Waste type** *Partially emptied and uncleaned packaging*
· **Exposure estimation**
· **Consumer** *Not relevant for this Exposure Scenario.*
· **Guidance for downstream users** *No further relevant information available.*

## Annex: Exposure scenario 2

· **Short title of the exposure scenario** *Professional use of cleaning agents*
· **Sector of Use**
*SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*
· **Product category** *PC35 Washing and cleaning products (including solvent based products)*
· **Process category**
*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*
*PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*
*PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities*
*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*
*PROC10 Roller application or brushing*
*PROC11 Non industrial spraying*

(Contd. on page 14)

**Safety data sheet**
**according to 1907/2006/EC, Article 31**

*Printing date 19.09.2023* *Version number 3.2 (replaces version 3.1)* *Revision: 19.09.2023*

**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 13)

*PROC13 Treatment of articles by dipping and pouring*
*PROC15 Use as laboratory reagent*
· ***Environmental release category***
*ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)*
· ***Description of the activities / processes covered in the Exposure Scenario***
*See section 1 of the annex to the Safety Data Sheet.*
· ***Conditions of use***
· ***Duration and frequency*** *5 workdays/week.*
· ***Physical parameters***
· ***Physical state*** *Fluid*
· ***Concentration of the substance in the mixture*** *The substance is main component.*
· ***Other operational conditions***
· ***Other operational conditions affecting environmental exposure*** *No special measures required.*
· ***Other operational conditions affecting consumer exposure*** *Not required.*
· ***Other operational conditions affecting consumer exposure during the use of the product***
*Not applicable.*
· ***Risk management measures***
· ***Worker protection***
· ***Organisational protective measures*** *No special measures required.*
· ***Technical protective measures*** *No special measures required.*
· ***Personal protective measures*** *No special measures required.*
· ***Measures for consumer protection*** *No special measures required.*
· ***Environmental protection measures***
· ***Air*** *No special measures required.*
· ***Water*** *No special measures required.*
· ***Disposal measures*** *Ensure that waste is collected and contained.*
· ***Disposal procedures*** *Dispose of product residues with household waste.*
· ***Waste type*** *Partially emptied and uncleaned packaging*
· ***Exposure estimation***
· ***Consumer*** *Not relevant for this Exposure Scenario.*
· ***Guidance for downstream users*** *No further relevant information available.*

## *Annex: Exposure scenario 3*

· ***Short title of the exposure scenario*** *Private use of cleaning agents*
· ***Sector of Use*** *SU21 Consumer uses: Private households / general public / consumers*
· ***Product category*** *PC35 Washing and cleaning products (including solvent based products)*
· ***Process category***
*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*
*PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*
*PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities*
*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*
*PROC10 Roller application or brushing*
*PROC11 Non industrial spraying*
*PROC13 Treatment of articles by dipping and pouring*
· ***Environmental release category***
*ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)*
· ***Description of the activities / processes covered in the Exposure Scenario***
*See section 1 of the annex to the Safety Data Sheet.*
· ***Conditions of use***
· ***Duration and frequency*** *5 workdays/week.*
· ***Physical parameters***
· ***Physical state*** *Fluid*
· ***Concentration of the substance in the mixture*** *The substance is main component.*

(Contd. on page 15)

# Safety data sheet
## according to 1907/2006/EC, Article 31



**Trade name: CARBURETOR CLEAN FLUID**

(Contd. of page 14)

· ***Other operational conditions***
· ***Other operational conditions affecting environmental exposure*** *No special measures required.*
· ***Other operational conditions affecting consumer exposure*** *Not required.*
· ***Other operational conditions affecting consumer exposure during the use of the product*** *Not applicable.*
· ***Risk management measures***
· ***Worker protection***
· ***Organisational protective measures*** *No special measures required.*
· ***Technical protective measures*** *No special measures required.*
· ***Personal protective measures*** *No special measures required.*
· ***Measures for consumer protection*** *No special measures required.*
· ***Environmental protection measures***
· ***Air*** *No special measures required.*
· ***Water*** *No special measures required.*
· ***Disposal measures*** *Ensure that waste is collected and contained.*
· ***Disposal procedures*** *Dispose of product residues with household waste.*
· ***Waste type*** *Partially emptied and uncleaned packaging*
· ***Exposure estimation***
· ***Consumer*** *Not relevant for this Exposure Scenario.*
· ***Guidance for downstream users*** *No further relevant information available.*