1.1 Product identifier

AUTOL Desolite B
Art.: 1131

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

Relevant identified uses of the substance or mixture:
System cleaner for vehicle fuel units (petrol engines)
Sector of use [SU]:
SU 0 - Other
SU21 - Consumer uses: Private households (=general public = consumers)

Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

Eni Schmiertechnik GmbH
Paradiesstraße 14
97080 Würzburg
Tel.: 0931/9 00 98-0
Fax: 0931/9 84 42
Homepage: www.enischmiertechnik.de

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:

+49 228 19240 (D-53113 Bonn, 24 hour)

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>Asp. Tox.</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
</tr>
</tbody>
</table>

2.2 Label elements

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

H304—May be fatal if swallowed and enters airways. H412—Harmful to aquatic life with long lasting effects.

P101—If medical advice is needed, have product container or label at hand. P102—Keep out of reach of children. P301+P310—IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331—Do NOT induce vomiting. P405—Store locked up. P501—Dispose of contents / container to an approved waste disposal facility.

EUH066—Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
Hydrocarbons, C10, aromatics, >1% naphthalene

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.

SECTION 3: Composition/information on ingredients

3.1 Substance
n.a.

3.2 Mixture

| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics | 01-2119456810-40-XXXX |
| Registration number (REACH) |  |
| Index | --- |
| EINECS, ELINCS, NLP | 920-901-0 (REACH-IT List-No.) |
| CAS | (90622-58-5) |
| content % | 80-100 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

| Phenol, (dimethylamino)methyl-, polyisobutylene derivatives | --- |
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP | --- |
| CAS | --- |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Aquatic Chronic 3, H412 |

| Hydrocarbons, C10, aromatics, >1% naphthalene | 01-2119463588-24-XXXX |
| Registration number (REACH) |  |
| Index | --- |
| EINECS, ELINCS, NLP | 919-284-0 (REACH-IT List-No.) |
| CAS | (64742-94-5) |
| content % | 1-5 |
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.
If the person is unconscious, place in a stable side position and consult a doctor.

**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.
Danger of aspiration.
In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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:
Drying of the skin.
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 07.10.2019 / 0007
Replacing version dated / version: 26.06.2018 / 0006
Valid from: 07.10.2019
PDF print date: 07.10.2019
AUTOL Desolite B
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Dermatitis (skin inflammation)
Irritation of the skin.
Inhalation:
Irritation of the respiratory tract
Headaches
Dizziness
Effects/damages the central nervous system
Ingestion:
Danger of aspiration.
Lung damage
Oedema of the lungs
Chemical pneumonitis (condition similar to pneumonia)
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
Gastric lavage (stomach washing) only under endotracheal intubation.
Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
CO2
Foam
Dry extinguisher
Unsuitable extinguishing media
High volume water jet

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Oxides of carbon
Oxides of nitrogen
Toxic gases
Flammable vapour/air mixtures

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary.
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
Remove possible causes of ignition - do not smoke.
Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions
If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
If accidental entry into drainage system occurs, inform responsible authorities.

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.
Oil binder
Do not wash away with water or watery cleaning agents.

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
7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.
Avoid formation of oil mist.
Keep away from sources of ignition - Do not smoke.
Do not heat to temperatures close to flash point.
Take measures against electrostatic charging, if appropriate.
Avoid contact with eyes or skin.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Do not carry cleaning cloths soaked in product in trouser pockets.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Under all circumstances prevent penetration into the soil.
Protect from direct sunlight and warming.
Store in a well-ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):
1200 mg/m³

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</th>
<th>Content %:80-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA:</td>
<td>1200 mg/m³ (&gt;=C7 normal and branched chain alkanes)</td>
<td>WEL-STEL: ---</td>
</tr>
</tbody>
</table>
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)  
- Draeger - Hydrocarbons 0,1%/c (81 03 571)  
- Compur - KITA-187 S (551 174)  
BMGV: --- | Other information: --- |
| BMGV:         | --- |

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hydrocarbons, C10, aromatics, &gt;1% naphthalene</th>
<th>Content %:1-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA:</td>
<td>500 mg/m³ (Aromatics)</td>
<td>WEL-STEL: ---</td>
</tr>
</tbody>
</table>
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)  
- Draeger - Hydrocarbons 0,1%/c (81 03 571)  
- Compur - KITA-187 S (551 174)  
BMGV: --- | Other information: --- |
| BMGV:         | --- |

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>1,2,4-trimethylbenzene</th>
<th>Content %:0,1-&lt;1</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA:</td>
<td>125 mg/m³ (25 ppm) (Trimethylbenzenes, all isomers or mixtures) (WEL), 20 ppm (100 mg/m³) (EU)</td>
<td>WEL-STEL: ---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td>- Compur - KITA-111 U(C) (549 178)</td>
<td></td>
</tr>
<tr>
<td>BMGV:</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Content %: 0.01-&lt;1</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>Mesitylene</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WEL-TWA: 125 mg/m³ (25 ppm) (Trimethylbenzenes, all isomers or mixtures) (WEL), 20 ppm (100 mg/m³) (EU)</th>
<th>WEL-STEL: ---</th>
</tr>
</thead>
</table>

**Monitoring procedures:**


**BMGV:** ---
**Other information:** ---

### Hydrocarbons, C10, aromatics, >1% naphthalene

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>7,5</td>
<td>mg/kg bw/day</td>
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<tr>
<td>Consumer</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>32</td>
<td>mg/m³</td>
<td></td>
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<tr>
<td>Consumer</td>
<td>Human - oral</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>7,5</td>
<td>mg/kg bw/day</td>
<td></td>
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<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>12,5</td>
<td>mg/kg bw/day</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>151</td>
<td>mg/m³</td>
<td></td>
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</tbody>
</table>

### 1,2,4-trimethylbenzene

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment - freshwater</td>
<td>PNEC</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>29,4</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td>Short term, systemic effects</td>
<td>DNEL</td>
<td>29,4</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>29,4</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>29,4</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>29,4</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Environment - soil</td>
<td>PNEC</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>29,4</td>
<td>mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
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. Applies only if maximum permissible exposure values are listed here. 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 feedingstuffs. 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:
Solvent resistant protective gloves (EN 374).
If applicable
Protective nitrile gloves (EN 374).
Minimum layer thickness in mm:
\[ \geq 0.4 \]
Permeation time (penetration time) in minutes:
\[ \geq 480 \]
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.
Protective gloves made of polyvinyl alcohol (EN 374)
Protective Viton® / fluoroelastomer gloves (EN 374)
Protective hand cream recommended.

Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
If OES or MEL is exceeded.
Filter A2 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: Light yellow
Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point: 63 °C (Pensky-Martens, closed cup)
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Lower explosive limit: 0,6 Vol-% (20°C, Hydrocarbons, C11-C13, isoalkanes, <2% aromatics)
Upper explosive limit: 6,5 Vol-% (20°C, Hydrocarbons, C11-C13, isoalkanes, <2% aromatics)
Vapour pressure: Not determined
Vapour density (air = 1): Not determined
Density: 775,3 g/l
Bulk density: Not determined
Solubility(ies): Insoluble, product floats.
Water solubility: Not determined
Partition coefficient (n-octanol/water): Not determined
Auto-ignition temperature: >230 °C (Ignition temperature Hydrocarbons, C11-C13, isoalkanes, <2% aromatics)
Decomposition temperature: Not determined
Viscosity: 2,48 mm²/s (20°C)
Viscosity: 1,60 mm²/s (40°C)
Explosive properties: Not determined
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 dangerous reactions are known.

10.4 Conditions to avoid
See also section 7.
Heating, open flame, ignition sources

10.5 Incompatible materials
See also section 7.
Avoid contact with strong acids.
Avoid contact with strong oxidizing agents.
Avoid contact with other chemicals.

10.6 Hazardous decomposition products
See also section 5.2
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).

<table>
<thead>
<tr>
<th>AUTOL Desolite B</th>
<th>Art.: 1131</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity / effect</strong></td>
<td><strong>Endpoint</strong></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td></td>
</tr>
<tr>
<td>Symptoms:</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td></td>
</tr>
</tbody>
</table>

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td>24h</td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>&gt;5000</td>
<td>mg/m3/8 h</td>
<td>Rat</td>
<td>OECD 403 (Acute Inhalation Toxicity)</td>
<td></td>
</tr>
</tbody>
</table>
Skin corrosion/irritation: Rabbit OECD 404 (Acute Dermal Irritation/Corrosion) Not irritant, Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation: Rabbit OECD 405 (Acute Eye Irritation/Corrosion) Not irritant

Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) Not sensitizising

Germ cell mutagenicity: Mouse OECD 474 (Mammalian Erythrocyte Micronucleus Test) Negative

Germ cell mutagenicity: Mouse OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) Negative

Germ cell mutagenicity: Rat OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test) Negative

Germ cell mutagenicity: Salmonella typhimurium OECD 471 (Bacterial Reverse Mutation Test) Negative

Carcinogenicity: Rat OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) Negative

Specific target organ toxicity - repeated exposure (STOT-RE): Analogous conclusion, Negative

Aspiration hazard: Yes

Symptoms: headaches, dizziness

<table>
<thead>
<tr>
<th>Hydrocarbons, C10, aromatics, &gt;1% naphthalene</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity / effect</strong></td>
</tr>
<tr>
<td>Acute toxicity, by oral route:</td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
</tr>
<tr>
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</tr>
<tr>
<td>Serious eye damage/irritation:</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
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</tbody>
</table>
### Reproductive Toxicity

<table>
<thead>
<tr>
<th>Reproductive toxicity:</th>
<th>OECD 414 (Prenatal Developmental Toxicity Study)</th>
<th>Negative, Analogous conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity:</td>
<td>OECD 416 (Two-generation Reproduction Toxicity Study)</td>
<td>Negative, Analogous conclusion</td>
</tr>
<tr>
<td>Reproductive toxicity (Developmental toxicity):</td>
<td>Rat OECD 415 (One-Generation Reproduction Toxicity Study)</td>
<td>Negative, Analogous conclusion</td>
</tr>
<tr>
<td>Reproductive toxicity (Effects on fertility):</td>
<td>Rat OECD 415 (One-Generation Reproduction Toxicity Study)</td>
<td>Negative, Analogous conclusion</td>
</tr>
</tbody>
</table>

### Specific Target Organ Toxicity - Single Exposure (STOT-SE)

- **1,2,4-trimethylbenzene**
  - **Toxicity / effect**
  - **Endpoint**
  - **Value**
  - **Unit**
  - **Organism**
  - **Test method**
  - **Notes**
  - Acute toxicity, by oral route: LD$_{50}$ >2000 mg/kg Rat Vapours
  - Acute toxicity, by inhalation: LC$_{50}$ 18 mg/l/4h Rat Vapours
  - Skin corrosion/irritation: Rabbit Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSION) Skin Irrit. 2
  - Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) No (skin contact)
  - Germ cell mutagenicity: Mouse OECD 474 (Mammalian Erythrocyte Micronucleus Test) Negative
  - Germ cell mutagenicity: OECD 471 (Bacterial Reverse Mutation Test) Negative
  - Symptoms: drowsiness, unconsciousness, headaches, fatigue, dizziness, nausea

### Specific Target Organ Toxicity - Repeated Exposure (STOT-RE)

- **1,2,4-trimethylbenzene**
  - **Toxicity / effect**
  - **Endpoint**
  - **Value**
  - **Unit**
  - **Organism**
  - **Test method**
  - **Notes**
  - Acute toxicity, by inhalation: LC$_{50}$ 18 mg/l/4h Rat Vapours
  - Skin corrosion/irritation: Rabbit Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSION) Skin Irrit. 2
  - Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) No (skin contact)
  - Germ cell mutagenicity: Mouse OECD 474 (Mammalian Erythrocyte Micronucleus Test) Negative
  - Germ cell mutagenicity: OECD 471 (Bacterial Reverse Mutation Test) Negative
  - Symptoms: drowsiness, unconsciousness, headaches, fatigue, dizziness, nausea

### Aspiration Hazard

- **1,2,4-trimethylbenzene**
  - **Aspiration hazard:** Yes

### 1,2,4-trimethylbenzene

- **Toxicity / effect**
- **Endpoint**
- **Value**
- **Unit**
- **Organism**
- **Test method**
- **Notes**

### Ecological Information

**SECTION 12: Ecological information**
Possibly more information on environmental effects, see Section 2.1 (classification).

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<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LL50</td>
<td>96h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>NOELR</td>
<td>28d</td>
<td>0,32</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>QSAR</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EL50</td>
<td>48h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>NOELR</td>
<td>21d</td>
<td>1</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>ErL50</td>
<td>72h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Pseudokirchnerie lla subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>NOELR</td>
<td>72h</td>
<td>1000</td>
<td>mg/l</td>
<td>Pseudokirchnerie lla subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance Insoluble</td>
<td></td>
</tr>
</tbody>
</table>

**Hydrocarbons, C11-C13, isoalkanes, <2% aromatics**

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>31</td>
<td>mg/l</td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>96h</td>
<td>&gt;450</td>
<td>mg/l</td>
<td>Pseudokirchnerie lla subcapitata</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>DOC</td>
<td>28d</td>
<td>20.7</td>
<td>%</td>
<td>activated sludge</td>
<td></td>
<td>Inherent</td>
</tr>
</tbody>
</table>

**Phenol, (dimethylamino)methyl-, polyisobutylene derivatives**

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LL50</td>
<td>96h</td>
<td>31</td>
<td>mg/l</td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>NOELR</td>
<td>28d</td>
<td>0,32</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>QSAR</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EL50</td>
<td>48h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>NOELR</td>
<td>21d</td>
<td>1</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>ErL50</td>
<td>72h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Pseudokirchnerie lla subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>NOELR</td>
<td>72h</td>
<td>1000</td>
<td>mg/l</td>
<td>Pseudokirchnerie lla subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance Insoluble</td>
<td></td>
</tr>
</tbody>
</table>

**Water solubility:** Insoluble
AUTOL Desolite B
Art.: 1131

### Toxicity to bacteria:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>3h</td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>activated sludge</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hydrocarbons, C10, aromatics, >1% naphthalene

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LL50</td>
<td>96h</td>
<td>2-5</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EL50</td>
<td>48h</td>
<td>3-10</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EL50</td>
<td>72h</td>
<td>11</td>
<td>mg/l</td>
<td>Pseudokirchnerie ilia subcapitata</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>NOELR</td>
<td>72h</td>
<td>2,5</td>
<td>mg/l</td>
<td>Pseudokirchnerie ilia subcapitata</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td></td>
<td>2,8-6,5</td>
<td>%</td>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1,2,4-trimethylbenzene

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>7,72</td>
<td>mg/l</td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>3,6</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>BCF</td>
<td>275</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Kow</td>
<td>3,63</td>
<td>%</td>
<td></td>
<td>Low</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mesitylene

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>6</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>48h</td>
<td>25</td>
<td>mg/l</td>
<td>Scenedesmus quadricauda</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.: 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
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
14 06 03 other solvents and solvent mixtures
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.
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:
14.3. Transport hazard class(es): n.a.
14.4. Packing group: n.a.
Classification code: n.a.
LQ: n.a.
14.5. Environmental hazards: Not applicable

Tunnel restriction code:

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

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

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:
Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): > 96 %
Directive 2010/75/EU (VOC): > 744,5 g/l

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2
These details refer to the product as it is delivered.
Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

<table>
<thead>
<tr>
<th>Classification in accordance with regulation (EC) No. 1272/2008 (CLP)</th>
<th>Evaluation method used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1, H304</td>
<td>Classification according to calculation procedure.</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td>Classification according to calculation procedure.</td>
</tr>
</tbody>
</table>

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):
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard
Aquatic Chronic — Hazardous to the aquatic environment - chronic
Carc. — Carcinogenicity
STOT SE — Specific target organ toxicity - single exposure - narcotic effects
Flam. Liq. — Flammable liquid
Acute Tox. — Acute toxicity - inhalation
Eye Irrit. — Eye irritation
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
Skin Irrit. — Skin irritation

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
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
IUCLID International Uniform Chemical Information Database
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
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:

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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