

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878

**VFL**  
Vismara Farbladen

Article No.: 479 BRICAFEU Graphitfarbe 500°C.  
Print date: 26.12.2022 Revision date: 10.12.2022 EN  
Version: 8.0 Issue date: 10.12.2022 Page 1 / 14

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

**1.1. product identifiers**

Article No. (manufacturer/supplier) 479  
Trade name/designation BRICAFEU Graphitfarbe 500°C.  
schwarz

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

**Relevant identified uses:**

Coating material to protecting surfaces

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

**supplier (manufacturer/importer/downstream user/distributor)**  
Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

**Department responsible for information:**

laboratory Manager

E-mail (competent person)

info@knuchel.ch

**1.4. Emergency telephone number**

Emergency telephone number 145 (+41 (0)44 251 51 51)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226

Flammable liquids

Flammable liquid and vapour.

Skin Irrit. 2 / H315

Skin corrosion/irritation

Causes skin irritation.

Repr. 2 / H361

Reproductive toxicity

Suspected of damaging the unborn child.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

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

**Hazard pictograms**



**Hazard statements**

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H361

Suspected of damaging the unborn child.

H336

May cause drowsiness or dizziness.

H412

Harmful 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.

P202

Do not handle until all safety precautions have been read and understood.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof electrical equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P261

Avoid breathing vapours.

P264

Wash hands thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P273

Avoid release to the environment.

P280

Wear protective gloves and eye/face protection.

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P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Keep locked up.
P501	Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

Toluene  
 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Description** solvent-based alkyd resin, containing the following hazardous substances:

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
919-446-0	01-2119458049-33 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226	15 - 25
203-625-9 108-88-3 601-021-00-3	01-2119471310-51 Toluene Flam. Liq. 2 H225 / Repr. 2 H361 / Asp. Tox. 1 H304 / STOT RE 2 H373 / Skin Irrit. 2 H315 / STOT SE 3 H336	5 - 10
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	1 - 5
918-668-5	01-2119455851-35 Hydrocarbons, C9, aromatics, <0.1% benzene STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411	1 - 5
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	1 - 5
245-018-1 22464-99-9	Fatty acid C6-C19, zirconium Repr. 2 H361	0.1 - 0.5

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

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## In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

## Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

## After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

## Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Unsuitable extinguishing media

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Further information

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Vapours are heavier than air. Vapours form explosive mixtures with air.

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

### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

## 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

WEL, TWA: 191 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 384 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 441 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m<sup>3</sup>; 100 ppm

WEL, STEL: 552 mg/m<sup>3</sup>; 125 ppm

Remark: (may be absorbed through the skin)

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

DNEL long-term dermal (systemic), Workers: 384 mg/kg bw/day

DNEL acute inhalative (local), Workers: 384 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 384 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 192 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 192 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 8,13 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 226 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 226 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 226 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Consumer: 56,5 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 56,5 mg/m<sup>3</sup>

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

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DNEL long-term dermal (systemic), Workers: 212 mg/kg bw/day  
DNEL acute inhalative (local), Workers: 442 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 442 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers:  
DNEL long-term inhalative (systemic), Workers: 221 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 12,5 mg/kg bw/day  
DNEL long-term dermal (systemic), Consumer: 125 mg/kg bw/day  
DNEL acute inhalative (local), Consumer: 260 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 260 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 65,3 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 65,3 mg/m<sup>3</sup>

## ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4  
DNEL long-term dermal (systemic), Workers: 180 mg/kg bw/day  
DNEL long-term inhalative (systemic), Workers: 77 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg bw/day  
DNEL long-term inhalative (systemic), Consumer: 15 mg/m<sup>3</sup>

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  
EC No. 919-446-0

DNEL long-term dermal (local), Workers: 44 mg/kg  
DNEL long-term dermal (systemic), Workers: 44 mg/kg  
DNEL acute inhalative (local), Workers: 570 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 570 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 330 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 330 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 26 mg/kg  
DNEL long-term dermal (local), Consumer: 26 mg/kg  
DNEL long-term dermal (systemic), Consumer: 26 mg/kg  
DNEL acute inhalative (local), Consumer: 570 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 71 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 71 mg/m<sup>3</sup>

## PNEC:

### Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3  
PNEC aquatic, freshwater: 0,68 mg/L  
PNEC aquatic, marine water: 0,68 mg/L  
PNEC sediment, freshwater: 16,39 mg/kg  
PNEC sediment, marine water: 16,39 mg/kg  
PNEC, soil: 2,89 mg/kg  
PNEC sewage treatment plant (STP): 13,61 mg/L  
PNEC Waters, sporadic release: 0,68 mg/L

### Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7  
PNEC aquatic, freshwater: 0,327 mg/L  
PNEC aquatic, marine water: 0,327 mg/L  
PNEC sediment, freshwater: 12,46 mg/kg  
PNEC sediment, marine water: 12,46 mg/kg  
PNEC sewage treatment plant (STP): 6,58 mg/L  
soil: 2,31 mg/kg

## ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4  
PNEC aquatic, freshwater: 0,1 mg/L  
PNEC aquatic, marine water: 0,01 mg/L  
PNEC sediment, freshwater: 13,7 mg/kg  
PNEC sediment, marine water: 1,37 mg/kg  
PNEC, soil: 2,68 mg/kg  
PNEC sewage treatment plant (STP): 9,6 mg/L

## 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

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## Personal protection equipment

### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

### **Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

### **Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

### Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

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

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>refer to label</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>not applicable</b>
<b>Melting point/freezing point:</b>	<b>not applicable</b>
<b>Initial boiling point and boiling range:</b>	<b>111 °C</b> Source: Toluene
<b>Flammability:</b>	<b>Flammable liquid and vapour.</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>0.8 Vol-%</b>
<b>Upper explosion limit:</b>	<b>8 Vol-%</b> Source: Xylene
<b>Flash point:</b>	<b>25 °C</b> Method: DIN 53213
<b>Auto-ignition temperature:</b>	<b>270 °C</b> Source: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Cinematic viscosity (40°C):</b>	<b>&lt; 400 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>1200 - 1400 mPas</b>
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>insoluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>29 mbar</b> Source: Toluene
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1.14 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>

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## 9.2. Other information

\*

<b>Solid content:</b>	<b>66 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>34 weight-%</b>
<b>Water:</b>	<b>0 weight-%</b>
<b>Solvent separation test:</b>	<b>&lt; 3 weight-% (ADR/RID)</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Toluene

oral, LD50, Rat: 636 mg/kg  
Neurotoxicology. Vol. 2, Pg. 567, 1981  
dermal, LD50, Rat: 12200 mg/kg  
American Industrial Hygiene Association Journal. Vol. 30, Pg. 470, 1969  
inhalative (vapours), LC50, Rat: 28,1 mg/L (4 h)  
Method: OECD 403  
oral, LD50, Rat, male: 5580 mg/kg  
Method: EU Test B.1  
dermal, LD50, Rabbit, male: > 5000

##### Xylene

oral, LD50, Rat, male: 5,523 mg/kg  
Method: EU Test B.1  
inhalative (vapours), LC50, Rat, male: 6700 ppm (4 h)

##### ethylbenzene

oral, LD50, Rat: 3,5 mg/kg  
dermal, LD50, Rabbit: 15,4 mg/kg

##### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

oral, LD50, Rat: 15000 mg/kg  
Method: OECD 401  
dermal, LD50, Rat: > 2000 mg/kg  
dermal, LD50, Rabbit: > 4 mg/kg  
inhalative (vapours), LC50, Rat: 13,1 mg/L (4 h)

##### Hydrocarbons, C9, aromatics, <0.1% benzene

oral, LD50, Rat: 3492 mg/kg  
dermal, LD50, Rabbit: > 3160 mg/kg  
inhalative (vapours), LC50, Rat: 6 mg/m<sup>3</sup> 10 (4 h)

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

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ethylbenzene

Skin, Rabbit (24 h)  
Causes mild skin irritation.  
eyes, Rabbit  
Causes slight eye irritation

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin (4 h)  
Causes skin irritation.  
eyes  
Causes serious eye irritation.

Hydrocarbons, C9, aromatics, <0.1% benzene

Skin (4 h)  
Method: OECD 404  
Not to be classified as skin etching/irritant.  
eyes  
Method: OECD 405  
Not to be classified as severe eye damage or eye irritation.

## Respiratory or skin sensitisation

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin:  
No data available (human)  
Respiratory system:  
No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Skin:  
Method: OECD 406  
Not to be classified as skin sensitising.  
Respiratory system:  
No data available

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of damaging the unborn child.

ethylbenzene

Germ cell mutagenicity; Evaluation negative  
Hamster; Mouse; ovaries  
Carcinogenicity; Evaluation Carc. Cat. 2  
Method: Group II B (IARC): Possible carcinogenic to humans (ethylbenzene)  
human

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Germ cell mutagenicity  
No data available  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available  
Lactation  
No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Germ cell mutagenicity  
Not to be classified as germ cell mutagen (mutagen).  
Carcinogenicity  
There are in vivo studies that indicate positive results of kidney cancer.  
Reproductive toxicity  
Does not qualify as a carcinogen.  
In vitro mutagenicity; Evaluation positive

## STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

Xylene



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Specific target organ toxicity (repeated exposure)  
Liver and kidney damage; central nervous system  
Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
Liver and kidney damage; central nervous system; hearing organs

#### ethylbenzene

Repeated dose toxicity, Rat: 75 mg/kg  
Method OECD 407  
RTECS-no.: DA0700000  
Depression of central nervous system  
movement disorders; headache; Vomiting

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Specific target organ toxicity (single exposure)  
May cause respiratory irritation.; May cause drowsiness or dizziness.

#### Hydrocarbons, C9, aromatics, <0.1% benzene

Specific target organ toxicity (single exposure)  
May cause respiratory irritation and depression of central nervous system with drowsiness, dizziness, weakness, loss of consciousness, nausea and headache.  
Specific target organ toxicity (repeated exposure)  
No data available

#### Aspiration hazard

##### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Aspiration hazard  
Based on available data, the classification criteria are not met.

##### Hydrocarbons, C9, aromatics, <0.1% benzene

Aspiration hazard  
May be fatal if swallowed and enters airways.

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information available.

### SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

##### Toluene

Fish toxicity, LC50, Oncorhynchus kisutch (silver salmon): 5,5 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia pulex (water flea): 3,78 mg/L (48 h)  
Algae toxicity, EC50, Chlamydomonas angulosa: 134 mg/L (3 h)  
Bacteria toxicity, EC50, Nitrosomonas sp: 84 mg/L (24 h)

##### Xylene

Fish toxicity, LC50, fish: 2,6 mg/L (96 h)  
Method: OECD 203  
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)  
Method: OECD 201  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)  
Method: OECD 201  
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout) (96 h)

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Method: OECD 203  
Daphnia toxicity, IC50, Daphnia magna: 1 mg/L (24 h)  
Method: OECD 202  
Algae toxicity, EC50, Selenastrum capricornutum: 2,2 mg/L (73 h)  
Method: OECD 201  
Daphnia toxicity, growth test (Eb-Cx) 10%“, Daphnia magna: 1,91 mg/L (21 d)  
Method: OECD 211  
Bacteria toxicity, NOEC, Activated sludge: 16 mg/L (28 t)  
Method: OECD 301 F

#### ethylbenzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 4,2 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia magna (Big water flea) 1,8 - 2,4 mg/L (48 h)  
Algae toxicity, EC50, Skeletonema costatum: 4,9 mg/L (72 h)  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 7,2 mg/L (48 h)  
Shellfish Toxicity, LC50, Mysidopsis bahia: > 5,2 mg/L (48 h)  
Toxicity of Microorganisms, EC50, microorganisms: 96 mg/L (24 h)

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Fish toxicity, LL50:, Oncorhynchus mykiss (Rainbow trout) 10 - 30 mg/L (96 h)  
Method: OECD 203  
Daphnia toxicity, EL50, Daphnia magna (Big water flea) 10 - 22 mg/L (48 h)  
Method: OECD 202  
Algae toxicity, ELb50, Pseudokirchneriella subcapitata 4,1 - 4,6 mg/L (72 h)  
Method: OECD 201

#### Hydrocarbons, C9, aromatics, <0.1% benzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia magna: 1,6 mg/L (48 h)

#### Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Toluene

Fish toxicity, NOEC, Oncorhynchus kisutch (silver salmon): 1,39 mg/L (40 d)  
Daphnia toxicity, NOEC, Daphnia pulex (water flea): 0,74 mg/L (7 d)  
Fish toxicity, LOEC:, Oncorhynchus kisutch (silver salmon): 2,77 mg/L (40 d)

#### Xylene

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,36 mg/L (73 h)  
Method: OECD 201  
Fish toxicity, NOEC, fish: > 1,3 mg/L (56 d)  
Daphnia toxicity, NOEC, Daphnia pulex (water flea): 1,17 mg/L (7 d)  
Method: US EPA 600/4-91-003  
Daphnia toxicity, EL50, Daphnia magna: 2,9 mg/L (21 d)  
Method: OECD 211  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (73 h)  
Method: OECD 201  
Daphnia toxicity, LOEC:, Daphnia magna (Big water flea): 3,16 mg/L (21 d)  
Method: OECD 211  
Algae toxicity, growth test (Eb-Cx) 10%“, Pseudokirchneriella subcapitata: 0,72 mg/L (73 h)  
Method: OECD 201

#### ethylbenzene

Daphnia toxicity, NOEC, Ceriodaphnia dubia (Wasserfloh): 0,96 mg/L (7 d)  
Daphnia toxicity, LC50, Ceriodaphnia dubia (Wasserfloh): 3,6 mg/L (7 d)  
Bacteria toxicity, EC50, Nitrosomonas sp: 96 mg/L (24 h)  
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 3,4 mg/L (96 h)  
Daphnia toxicity, LOEC:, Ceriodaphnia dubia (Wasserfloh): 1,7 mg/L (7 d)

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Daphnia toxicity, EC50: 9 mg/L (48 h)

## 12.2. Persistence and degradability

#### Toluene

Persistence and degradability: Evaluation Rapid photochemical oxidation in air  
Biodegradation: 86 percent (20 d)

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Readily biodegradable (according to OECD criteria)

Xylene

Persistence and degradability:

Method: Rapid photochemical oxidation in air

Biodegradation: 98 percent (28 d)

Readily biodegradable (according to OECD criteria)

ethylbenzene

Biodegradation, aerobic: 70 - 80 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Biodegradation: 74,7 percent (28 d)

Hydrocarbons, C9, aromatics, <0.1% benzene

Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).

## 12.3. Bioaccumulative potential

Toluene

Distribution coefficient n-octanol/water (log KOW): 2,65

Method: BCF: 90

The product has a low bioaccumulation potential

Xylene

Distribution coefficient n-octanol/water (log KOW): 3,49

ethylbenzene

Distribution coefficient n-octanol/water (log KOW): 3,6

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Distribution coefficient n-octanol/water (log KOW):

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Distribution coefficient n-octanol/water (log KOW): 3,7 - 4,5

### Bioconcentration factor (BCF)

Toluene

Bioconcentration factor (BCF): 90 ; Evaluation The product has a low bioaccumulation potential

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Bioconcentration factor (BCF): 500

high

## 12.4. Mobility in soil

Toluene

Water: Evaluation Floats on the water

soil: Evaluation Mobile in the ground

Xylene

soil: Evaluation Absorbs slowly into the soil

Water: Evaluation Floats on the water

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

soil:

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

soil:

No data available

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Appropriate disposal / Product

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## Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

## List of proposed waste codes/waste designations in accordance with EWC

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

## Appropriate disposal / Package

### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1263

### 14.2. UN proper shipping name

Land transport (ADR/RID): Paint  
Sea transport (IMDG): PAINT  
Air transport (ICAO-TI / IATA-DGR): Paint

### 14.3. Transport hazard class(es)

Land transport (ADR/RID): KEINE GÜTER DER KLASSE 3  
bei Gebinden > 450 l Klasse 3  
Sea transport (IMDG)  
for packages < = 450 litres: 3  
Transport in accordance with the provisions of paragraph 2.3.2.5 of the  
IMDG Code.  
Air transport (ICAO-TI / IATA-DGR) 3

### 14.4. Packing group

III

### 14.5. Environmental hazards

Land transport (ADR/RID) not applicable  
Marine pollutant not applicable

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

### Further information

#### Land transport (ADR/RID)

Tunnel restriction code D/E

#### Sea transport (IMDG)

EmS-No. F-E, S-E

### 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

## SECTION 15: Regulatory information

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

#### EU legislation

##### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 390

#### National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

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**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	01-2119458049-33
203-625-9 108-88-3	Toluene	01-2119471310-51
215-535-7 1330-20-7	Xylene	01-2119488216-32
918-668-5	Hydrocarbons, C9, aromatics, <0.1% benzene	01-2119455851-35
202-849-4 100-41-4	ethylbenzene	01-2119489370-33

**SECTION 16: Other information**

\*

**Full text of classification in section 3**

STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.

**Classification procedure**

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

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Repr. 2	Reproductive toxicity	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
Aquatic Chronic 3	Hazardous to the aquatic environment	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization

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LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

## Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version