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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 26.11.2012 / 0006
Replaces revision of / Version: 21.06.2012 / 0005
Valid from: 26.11.2012
PDF print date: 03.12.2012
VENTIL SAUBER 150ML Art.: 1014

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

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

1.1 Product identifier

VENTIL SAUBER 150ML

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

Relevant identified uses of the substance or mixture:

Cleaner
Solvent

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr
Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

1.4 Emergency telephone

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Dangerous for the environment, R52-53

Xn, Harmful, R65

R66

2.2 Label elements

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

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Symbols: Xn

Indications of danger:

Harmful

R-phrases:

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.



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66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

2 Keep out of the reach of children.

23 Do not breathe vapour/spray.

24 Avoid contact with skin.

56 Dispose of this material and its container to hazardous or special waste collection point.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Additions:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

When using: development of flammable vapour/air mixture possible.

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, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | |
| Registration number (REACH) | 01-2119473977-17-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 919-164-8 (REACH-IT List-No.) |
| CAS | (64742-82-1) |
| content % | 70-90 |
| Classification according to Directive 67/548/EEC | Harmful, Xn, R65 R66 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |

| | |
|--|--|
| Solvent naphtha (petroleum), heavy arom. | |
| Registration number (REACH) | -- |
| Index | 649-424-00-3 |
| EINECS, ELINCS, NLP | 265-198-5 |
| CAS | CAS 64742-94-5 |
| content % | 1-<10 |
| Classification according to Directive 67/548/EEC | Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Aquatic Chronic 2, H411 Asp. Tox. 1, H304 |

| | |
|---|-------------------------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| Registration number (REACH) | 01-2119456620-43-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 926-141-6 (REACH-IT List-No.) |
| CAS | CAS --- |
| content % | 1-5 |
| Classification according to Directive 67/548/EEC | Harmful, Xn, R65 R66 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

| | |
|------------------------------------|--------------|
| Naphthalene | |
| Registration number (REACH) | -- |
| Index | 601-052-00-2 |

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| | |
|--|--|
| EINECS, ELINCS, NLP | 202-049-5 |
| CAS | CAS 91-20-3 |
| content % | 0,1-<1 |
| Classification according to Directive 67/548/EEC | Harmful, Xn, R22 Carcinogen, R40, Carc.Cat.3 Dangerous for the environment, N, R50 Dangerous for the environment, R53 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Sol. 1, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) |

| | |
|--|--|
| 1,2,4-trimethylbenzene | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | -- |
| Index | 601-043-00-3 |
| EINECS, ELINCS, NLP | 202-436-9 |
| CAS | CAS 95-63-6 |
| content % | 0,1-<1 |
| Classification according to Directive 67/548/EEC | Flammable, R10 Harmful, Xn, R20 Irritant, Xi, R36/37/38 Dangerous for the environment, N, R51 Dangerous for the environment, R53 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 |

| | |
|--|---|
| Solvent naphtha (petroleum), heavy arom. | |
| Registration number (REACH) | -- |
| Index | 649-424-00-3 |
| EINECS, ELINCS, NLP | 265-198-5 |
| CAS | CAS 64742-94-5 |
| content % | 0,01-<1 |
| Classification according to Directive 67/548/EEC | Irritant, Xi, R37/38 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | STOT SE 3, H335 Skin Irrit. 2, H315 Asp. Tox. 1, H304 |

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

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Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting. Consult doctor immediately.
Danger of aspiration

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.

With long-term contact:

Irritation of the eyes
Headaches
Dizziness
Nausea
Product removes fat.
Drying of the skin.
Dermatitis (skin inflammation)

Ingestion:

Danger of aspiration
Lung damage

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

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂
Dry extinguisher
Foam
Cool container at risk with water.

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 pyrolysis products.
Flammable vapour/air mixtures
Dangerous vapours heavier than air.
In case of spreading near the ground, flashback to distance sources of ignition is possible.

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
Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.
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 from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.
If accidental entry into drainage system occurs, inform responsible authorities.

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6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.
 Keep away from sources of ignition - Do not smoke.
 Do not heat to temperatures close to flash point.
 Take precautions against electrostatic charges.
 Avoid contact with eyes or skin.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 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.
 Solvent resistant floor
 Do not store with oxidizing agents.
 Store in a well ventilated place.
 Protect from direct sunlight and warming.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

| | | |
|--|--|------------------|
| Chemical Name | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Content %:70-90 |
| WEL-TWA: 1000 mg/m ³ | WEL-STEL: --- | --- |
| BMGV: --- | Other information: (WEL acc. to RCP-method, EH40) | |
| Chemical Name | Solvent naphtha (petroleum), heavy arom. | Content %:1-<10 |
| WEL-TWA: 500 mg/m ³ (Aromatics) | WEL-STEL: --- | --- |
| BMGV: --- | Other information: --- | |
| Chemical Name | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Content %:1-5 |
| WEL-TWA: 1200 mg/m ³ (>=C7 normal and branched chain alkanes) | WEL-STEL: 2(II) (AGW) | --- |
| BMGV: --- | Other information: --- | |
| Chemical Name | Naphthalene | Content %:0,1-<1 |
| WEL-TWA: 10 ppm (50 mg/m ³) (EU) | WEL-STEL: --- | --- |
| BMGV: --- | Other information: --- | |
| Chemical Name | 1,2,4-trimethylbenzene | Content %:0,1-<1 |

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|--|------------------------|-----|
| WEL-TWA: 25 ppm (125 mg/m ³) (Trimethylbenzenes, all isomers or mixtures) (WEL), 20 ppm (100 mg/m ³) (EU) | WEL-STEL: --- | --- |
| BMGV: --- | Other information: --- | |

| | | |
|--|--|-----------------------|
| Chemical Name | Solvent naphtha (petroleum), heavy arom. | Content %:0,01- <1 |
| WEL-TWA: 500 mg/m ³ (Aromatics) | WEL-STEL: --- | --- |
| BMGV: --- | Other information: --- | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

| Naphthalene | | | | | | |
|---------------------|--|-----------------------------|------------|--------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 3,57 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 25 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 25 | mg/m ³ | |
| | Environment - freshwater | | PNEC | 2,4 | µg/l | |
| | Environment - marine | | PNEC | 0,24 | µg/l | |
| | Environment - sewage treatment plant | | PNEC | 2,9 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,0672 | mg/kg dry weight | |
| | Environment - sediment, marine | | PNEC | 0,0672 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,0533 | mg/kg dry weight | |

| 1,2,4-trimethylbenzene | | | | | | |
|------------------------|--|------------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 100 | mg/m ³ | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 100 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 16171 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 100 | mg/m ³ | |
| Workers / employees | Human - blood | Long term, local effects | DNEL | 100 | mg/m ³ | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 29,4 | mg/m ³ | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 29,4 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 9512 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 29,4 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 15 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 29,4 | mg/m ³ | |
| | Environment - freshwater | | PNEC | 0,12 | mg/l | |
| | Environment - marine | | PNEC | 0,12 | mg/l | |

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| | | | | | | |
|--|--------------------------------------|--|------|-------|------------------|--|
| | Environment - sewage treatment plant | | PNEC | 2,41 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 13,56 | mg/kg dry weight | |
| | Environment - sediment, marine | | PNEC | 13,56 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 2,34 | mg/kg dry weight | |

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.

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 with side protection (EN 166).

Skin protection - Hand protection:
 Solvent resistant protective gloves (EN 374).
 If applicable
 Suitable are, e.g., safety gloves from KCL GmbH Co., D-36124 Eichenzell, e-mail vertrieb@kcl.de, following specifications:
 Protective Viton gloves (EN 374)
 Vitojec 890
 Protective hand cream recommended.

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

Respiratory protection:
 Normally not necessary.
 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: Yellow

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| | |
|--|---|
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | n.a. |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | 63 °C (Naphtha (petroleum), hydrodesulfurized heavy) |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | 0,6 Vol-% (Naphtha (petroleum), hydrodesulfurized heavy) |
| Upper explosive limit: | 7 Vol-% (Naphtha (petroleum), hydrodesulfurized heavy) |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | 0,818 g/ml (20°C) |
| Bulk density: | Not determined |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | 240 °C (DIN 51794, Ignition temperature Naphtha (petroleum), hydrodesulfurized heavy) |
| Decomposition temperature: | Not determined |
| Viscosity: | <7 mm ² /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 oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

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

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| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |

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|---|--|--|--|--|--|--|
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Respiratory tract irritation: | | | | | | n.d.a. |
| Repeated dose toxicity: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according to calculation procedure. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | | | |
|---|----------|-------|-------|----------|--------------------------------------|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | ~3400 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 13100 | mg/m3 | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | Not sensitizing |
| Germ cell mutagenicity: | | | | | | Negative |
| Carcinogenicity: | | | | | | Analogous conclusion, Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | No (inhalation) |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | dizziness, unconsciousness, headaches |

| Solvent naphtha (petroleum), heavy arom. | | | | | | |
|---|----------|-------|-------|----------|-------------|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | | | |
| Respiratory or skin sensitisation: | | | | | | Not sensitizing |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | dizziness, headaches, drowsiness, dizziness |
| Symptoms: | | | | | | dizziness, headaches, drowsiness, dizziness, eyes, reddened |

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | | | | | |
|---|----------|--------|-------|----------|--------------------------------|----------------------|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | > 5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | Analogous conclusion |

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|---|------|-------|---------|--------|--|---|
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | >5000 | mg/m3 | Rat | OECD 403 (Acute Inhalation Toxicity) | Analogous conclusion (8 h) |
| Acute toxicity, by inhalation: | LC50 | >20 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute Dermal Irritation/Corrosion) | Analogous conclusion, Drying of the skin., Dermatitis (skin inflammation) |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Analogous conclusion, Slightly irritant |
| Respiratory or skin sensitisation: | | | | | OECD 406 (Skin Sensitisation) | Not sensitizing (Analogous conclusion) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Analogous conclusion, Negative |
| Germ cell mutagenicity (in vivo): | | | | | | Negative |
| Carcinogenicity: | | | | | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Analogous conclusion, Negative |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Analogous conclusion, Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Analogous conclusion, No indications of such an effect. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion, Not to be expected |
| Aspiration hazard: | | | | | | Harmful: may cause lung damage if swallowed. |
| Respiratory tract irritation: | | | | | | Analogous conclusion, No indications of such an effect. |
| Symptoms: | | | | | | drying of the skin., headaches, fatigue, dizziness, nausea |

| Naphthalene | | | | | | |
|----------------------------------|----------|-------|-------|----------|-------------|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 490 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | >340 | mg/m3 | Rat | | 1h |
| Skin corrosion/irritation: | | | | Rabbit | | Irritant, Classification according to Regulation (EC) 1272/2008 (CLP) |
| Serious eye damage/irritation: | | | | | | Irritant, Classification according to Regulation (EC) 1272/2008 (CLP) |
| Symptoms: | | | | | | lack of appetite, ataxia, breathing difficulties, unconsciousness, diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting. |

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| Toxicity/effect | Endpoint t | Value | Unit | Organism | Test method | Notes |
|--------------------------------|------------|-------|---------|----------|-------------|---|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 18 | mg/l/4h | Rat | | |
| Symptoms: | | | | | | dizziness, unconsciousness, headaches, fatigue, dizziness, nausea |

| Solvent naphtha (petroleum), heavy arom. | | | | | | |
|--|------------|-------|-----------------------|----------|-------------|---|
| Toxicity/effect | Endpoint t | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | >590 | mg/m ³ /4h | Rat | | |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | dizziness, headaches, drowsiness, dizziness |

SECTION 12: Ecological information

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

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|-------------------------------------|----------|------|-------|------|----------|-------------|--|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | | | | | | | n.d.a. |
| Toxicity to daphnia: | | | | | | | n.d.a. |
| Toxicity to algae: | | | | | | | n.d.a. |
| Persistence and degradability: | | | | | | | Isolate as much as possible with an oil separator. |
| Bioaccumulative potential: | | | | | | | n.d.a. |
| Mobility in soil: | | | | | | | n.d.a. |
| Results of PBT and vPvB assessment: | | | | | | | n.d.a. |
| Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | According to the recipe, contains no AOX. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | | | | |
|--|-----------|------|--------------|------|---------------------------------|--|-----------------------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LL50 | 96h | >10- <100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EL50 | 48h | 100- 200 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Toxicity to daphnia: | NOEC/NOEL | 21d | 0,28 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| Toxicity to algae: | EL50 | 72h | 10-100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 28d | 74,7 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |

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| | | | | | | | |
|-------------------------------------|---------|--|---------|--|--|--|-------------------------------------|
| Bioaccumulative potential: | Log Pow | | 4,2-7,2 | | | | |
| Results of PBT and vPvB assessment: | | | | | | | No PBT substance, No vPvB substance |

Solvent naphtha (petroleum), heavy arom.

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|------|-------|------|---------------|-------------|---|
| Toxicity to fish: | LC50 | 96h | 1-10 | mg/l | | | |
| Toxicity to daphnia: | EC50 | 48h | 1-10 | mg/l | Daphnia magna | | |
| Toxicity to algae: | IC50 | 72h | 1-10 | mg/l | | | |
| Persistence and degradability: | | | | | | | Rapid photochemical oxidation in the air. |
| Bioaccumulative potential: | BCF | | <100 | | | | |
| Bioaccumulative potential: | Log Pow | | >3 | | | | |

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------------------------|----------|------|-------|------|---------------------------------|--|-------------------------------------|
| Toxicity to fish: | LL0 | 96h | 1000 | mg/l | Oncorhynchus mykiss | | |
| Toxicity to daphnia: | ELO | 48h | 1000 | mg/l | Daphnia magna | | |
| Toxicity to algae: | ELO | 72h | 1000 | mg/l | Pseudokirchneriella subcapitata | | |
| Persistence and degradability: | | 28d | 69 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| Bioaccumulative potential: | Log Pow | | 6-8 | | | | |
| Results of PBT and vPvB assessment: | | | | | | | No PBT substance, No vPvB substance |

Naphthalene

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|---------------|-------------|--|
| Toxicity to fish: | LC50 | 96h | 1,6 | mg/l | | | Does not conform with EU classification. |
| Toxicity to daphnia: | EC50 | 48h | 1,96 | mg/l | Daphnia magna | | Does not conform with EU classification. |
| Bioaccumulative potential: | BCF | | >100 | | | | |
| Bioaccumulative potential: | Log Pow | | 3,3 | | | | |

1,2,4-trimethylbenzene

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity to fish: | LC50 | 96h | 7,72 | mg/l | | | |
| Toxicity to daphnia: | EC50 | 48h | 3,6 | mg/l | | | |

Solvent naphtha (petroleum), heavy arom.

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|------|---------|------|----------|-------------|----------|
| Toxicity to fish: | LC50 | 96h | 2-5 | mg/l | | | |
| Toxicity to daphnia: | EC50 | 48h | 3-10 | mg/l | | | |
| Toxicity to algae: | EC50 | 72h | 1-3 | mg/l | | | |
| Persistence and degradability: | | | | | | | Inherent |
| Bioaccumulative potential: | BCF | | 130-159 | | | | |
| Bioaccumulative potential: | Log Pow | | 2,9-6,1 | | | | |

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
 EC disposal code no.:

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

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 07 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixes

Recommendation:

Pay attention to local and national official regulations

Implement substance recycling.

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

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2011): n.a.

LQ (ADR 2009): n.a.

Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Marine Pollutant: n.a.

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Environmental hazards: Not applicable

Special precautions for user

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

Transport in bulk according to Annex II of MARPOL 73/78 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

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

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VOC (1999/13/EC): >89%

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 8, 11, 12

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- 10 Flammable.
- 20 Harmful by inhalation.
- 22 Harmful if swallowed.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 37/38 Irritating to respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- 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.
- H351 Suspected of causing cancer.
- 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.
- H412 Harmful to aquatic life with long lasting effects.

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

Any abbreviations and acronyms used in this document:

AC Article Categories
 acc., acc. to according, according to
 ACGIH American Conference of Governmental Industrial Hygienists
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOEL Acceptable Operator Exposure Level
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
 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)

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BCF Bioconcentration factor
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
 BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
 BMGV Biological monitoring guidance value (EH40, UK)
 BOD Biochemical oxygen demand
 BSEF Bromine Science and Environmental Forum
 bw body weight
 CAS Chemical Abstracts Service
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
 CIPAC Collaborative International Pesticides Analytical Council
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 COD Chemical oxygen demand
 CTFA Cosmetic, Toiletry, and Fragrance Association
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 DT50 Dwell Time - 50% reduction of start concentration
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EC European Community
 ECHA European Chemicals Agency
 EEA European Economic Area
 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)
 ERC Environmental Release Categories
 ES Exposure scenario
 etc. et cetera
 EU European Union
 EWC European Waste Catalogue
 Fax. Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane
 HGWP Halocarbon Global Warming Potential
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC Intermediate Bulk Container
 IBC (Code) International Bulk Chemical (Code)
 IC Inhibitory concentration
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 LC lethal concentration
 LC50 lethal concentration 50 percent kill
 LCLo lowest published lethal concentration
 LD Lethal Dose of a chemical
 LD50 Lethal Dose, 50% kill
 LDLo Lethal Dose Low
 LOAEL Lowest Observed Adverse Effect Level
 LOEC Lowest Observed Effect Concentration
 LOEL Lowest Observed Effect Level
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available

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NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAEC No Observed Adverse Effective Concentration
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
NOEL No Observed Effect Level
ODP Ozone Depletion Potential
OECD Organisation for Economic Co-operation and Development
org. organic
PAH polycyclic aromatic hydrocarbon
PBT persistent, bioaccumulative and toxic
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (= Technical Regulations for Hazardous Substances)
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
WHO World Health Organization
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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