

Safety Data Sheet

according to UK REACH Regulation

DINITROL 445 Spray

Revision date: 20.11.2024

Product code: 30445

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

DINITROL 445 Spray

UFI: WU9Q-G2QJ-P002-UNQ6

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

Anti-corrosive coating

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

Company name: DINOL GmbH
Street: Pyrmonter Strasse 76
Place: D-32676 Luegde
Telephone: + 49 (0) 5281 982980 Telefax: + 49 (0) 5281 9829860
E-mail: msds@dinol.com
Contact person: Labor
Responsible Department: msds@dinol.com

Supplier

Company name: Leading Solvent Supplies Limited
Street: Marston Business Park, Rudgate
Place: GB Tockwith, York YO26 7QF
E-mail: enquiries@leading-solvents.co.uk
Internet: www.leading-solvents.co.uk

1.4. Emergency telephone number: Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Aerosol 1; H222-H229
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
STOT SE 3; H336
STOT RE 2; H373
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

ethyl acetate
xylene
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Fatty acids, C18-unsatd. , trimers, compds. with oleylamine
Fatty acids, tall-oil, compds. with oleylamine
Cobalt bis(2-ethylhexanoate)

Signal word: Danger

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Pictograms:

Hazard statements

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

Special labelling of certain mixtures

Restricted to professional users.

Additional advice on labelling

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

Labelling of packages where the contents do not exceed 125 ml
Signal word: Danger

Pictograms:

Hazard statements

H222-H229-H317-H412

Precautionary statements

P210-P211-P251-P280-P410+P412

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures

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Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|-------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 141-78-6 | ethyl acetate | | | 20 - < 25 % |
| | 205-500-4 | 607-022-00-5 | 01-2119475103-46 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 74-98-6 | propane | | | 12,5 - 20 % |
| | 200-827-9 | 601-003-00-5 | 01-2119486944-21 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| 106-97-8 | butane | | | 5 - 10 % |
| | 203-448-7 | 601-004-00-0 | 01-2119474691-32 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| 75-28-5 | isobutane | | | 5 - 10 % |
| | 200-857-2 | 601-004-00-0 | 01-2119485395-27 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| | reaction mass of ethylbenzene and xylene | | | 1 - < 5 % |
| | 905-588-0 | | 01-2119488216-32 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304 | | | |
| | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | 1 - < 5 % |
| | 919-446-0 | | 01-2119458049-33 | |
| | Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H372 H304 H411 EUH066 | | | |
| 1330-20-7 | xylene | | | 1 - < 5 % |
| | 215-535-7 | 601-022-00-9 | 01-2119488216-32 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412 | | | |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | 1 - < 5 % |
| | 919-857-5 | | 01-2119463258-33 | |
| | Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066 | | | |
| 100-41-4 | ethylbenzene | | | < 1 % |
| | 202-849-4 | 601-023-00-4 | 01-2119489370-35 | |
| | Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304 | | | |
| | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | | | < 1 % |
| | 918-668-5 | | 01-2119455851-35 | |
| | Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 | | | |
| 147900-93-4 | Fatty acids, C18-unsatd., trimers, compds. with oleylamine | | | < 1 % |
| | | | 01-2119971821-33 | |
| | Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 2; H302 H317 H373 H411 | | | |
| 85711-55-3 | Fatty acids, tall-oil, compds. with oleylamine | | | < 0.1 % |
| | 288-315-1 | | 01-2119974148-28 | |
| | Eye Dam. 1, Skin Sens. 1A, STOT RE 2; H318 H317 H373 | | | |
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | | | < 0.1 % |
| | 205-250-6 | | 01-2119524678-29 | |

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| |
|---|
| Repr. 2, Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H361f H319 H317 H412 |
|---|

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-------------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 141-78-6 | 205-500-4 | ethyl acetate | 20 - < 25 % |
| | | inhalation: LC50 = 50 mg/l (vapours); dermal: LD50 = >20000 mg/kg; oral: LD50 = 5620 mg/kg | |
| 106-97-8 | 203-448-7 | butane | 5 - 10 % |
| | | inhalation: LC50 = 273000 ppm (gases) | |
| | 905-588-0 | reaction mass of ethylbenzene and xylene | 1 - < 5 % |
| | | inhalation: LC50 = 20 mg/l (vapours); inhalation: ATE = 4500 ppm (gases); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4300 mg/kg | |
| | 919-446-0 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 1 - < 5 % |
| | | dermal: LD50 = >3400 mg/kg; oral: LD50 = >15000 mg/kg | |
| 1330-20-7 | 215-535-7 | xylene | 1 - < 5 % |
| | | inhalation: LC50 = 10-20 mg/l (vapours); inhalation: ATE = 4500 ppm (gases); dermal: LD50 = 2000 mg/kg; oral: LD50 = 8700 mg/kg | |
| | 919-857-5 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 1 - < 5 % |
| | | inhalation: LC50 = 5000 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 100-41-4 | 202-849-4 | ethylbenzene | < 1 % |
| | | inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 4500 ppm (gases); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg | |
| | 918-668-5 | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | < 1 % |
| | | inhalation: LC50 = >6193 mg/l (vapours); dermal: LD50 = >3160 mg/kg; oral: LD50 = 3492 mg/kg | |
| 147900-93-4 | | Fatty acids, C18-unsatd. , trimers, compds. with oleylamine | < 1 % |
| | | oral: LD50 = > 1570 mg/kg | |
| 85711-55-3 | 288-315-1 | Fatty acids, tall-oil, compds. with oleylamine | < 0.1 % |
| | | oral: LD50 = > 2000 mg/kg | |
| 136-52-7 | 205-250-6 | Cobalt bis(2-ethylhexanoate) | < 0.1 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = 3129 mg/kg | |

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.

Never give anything by mouth to an unconscious person or a person with cramps.

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

After inhalation

Remove casualty to fresh air and keep warm and at rest.

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

After contact with skin

Change contaminated clothing.

Wash with plenty of water/Soap.

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. In case of eye irritation consult an ophthalmologist.

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After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).
Call a physician immediately.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

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

Nausea, Dizziness, Headache.

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

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.
Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear personal protection equipment.
Avoid contact with skin, eyes and clothes.

For emergency responders

For further specification, refer to section 8 of the SDS.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Provide adequate ventilation.
Clear contaminated areas thoroughly.
Do not rinse down with water.

Other information

No information available.

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6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Handle and open container with care.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Remove contaminated, saturated clothing immediately.

Do not breathe gas/vapour/aerosol.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Do not keep the container sealed. Keep container dry.

Keep away from heat. Protect from direct sunlight.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 106-97-8 | Butane | 600 | 1450 | | TWA (8 h) | WEL |
| | | 750 | 1810 | | STEL (15 min) | WEL |
| 1333-86-4 | Carbon black | - | 3.5 | | TWA (8 h) | WEL |
| | | - | 7 | | STEL (15 min) | WEL |
| 141-78-6 | Ethyl acetate | 200 | 734 | | TWA (8 h) | WEL |
| | | 400 | 1468 | | STEL (15 min) | WEL |
| 100-41-4 | Ethylbenzene | 100 | 441 | | TWA (8 h) | WEL |
| | | 125 | 552 | | STEL (15 min) | WEL |
| 14807-96-6 | Talc respirable dust | - | 1 | | TWA (8 h) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| | | 100 | 441 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine | Post shift |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|------------------------|
| 141-78-6 | ethyl acetate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 734 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 1468 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 734 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 1468 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 63 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 367 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 734 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 37 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 4,5 mg/kg bw/day |
| | reaction mass of ethylbenzene and xylene | | | |
| Worker DNEL, long-term | | inhalation | systemic | 211 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 221 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 442 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 180 mg/kg bw/day |
| Worker DNEL, acute | | inhalation | local | 289 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 1,6 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 14,8 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 65,3 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 260 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 260 mg/m ³ |
| | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 330 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 44 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 71 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 26 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 26 mg/kg bw/day |
| 1330-20-7 | xylene | | | |
| Consumer DNEL, long-term | | oral | systemic | 1,6 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | systemic | 180 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 108 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 77 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 14,8 mg/m ³ |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| Consumer DNEL, long-term | | oral | systemic | 125 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | systemic | 208 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 125 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 871 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 185 mg/m ³ |
| 100-41-4 | ethylbenzene | | | |

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| | | | |
|---|------------|----------|-----------------------|
| Worker DNEL, long-term | inhalation | systemic | 77 mg/m ³ |
| Worker DNEL, acute | inhalation | local | 293 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 180 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 15 mg/m ³ |
| Consumer DNEL, long-term | oral | systemic | 1,6 mg/kg bw/day |
| | | | |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | | | |
| Consumer DNEL, long-term | oral | systemic | 11 mg/kg bw/day |
| Worker DNEL, long-term | dermal | systemic | 25 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | systemic | 11 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 150 mg/m ³ |
| Consumer DNEL, long-term | inhalation | systemic | 32 mg/m ³ |
| 1333-86-4 Carbon Black | | | |
| Worker DNEL, long-term | inhalation | systemic | 2 mg/m ³ |
| Worker DNEL, long-term | inhalation | local | 2 mg/m ³ |

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PNEC values

| CAS No | Substance | Value |
|--|---------------|-------------|
| Environmental compartment | | |
| 141-78-6 | ethyl acetate | |
| Freshwater | | 0,24 mg/l |
| Marine water | | 0,024 mg/l |
| Freshwater sediment | | 1,15 mg/kg |
| Marine sediment | | 0,115 mg/kg |
| Secondary poisoning | | 0,20 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 650 mg/l |
| Soil | | 0,148 mg/kg |
| reaction mass of ethylbenzene and xylene | | |
| Freshwater | | 0,327 mg/l |
| Marine water | | 0,327 mg/l |
| Freshwater sediment | | 12,64 mg/kg |
| Marine sediment | | 12,64 mg/kg |
| Soil | | 2,31 mg/kg |
| 1330-20-7 | xylene | |
| Freshwater | | 0,327 mg/l |
| Marine water | | 0,327 mg/l |
| Freshwater sediment | | 12,46 mg/kg |
| Marine sediment | | 12,46 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 6,58 mg/l |
| Soil | | 2,31 mg/kg |
| 100-41-4 | ethylbenzene | |
| Freshwater | | 0,1 mg/l |
| Marine water | | 0,01 mg/l |
| Freshwater sediment | | 13,7 mg/kg |
| Marine sediment | | 1,37 mg/kg |
| Secondary poisoning | | 0,02 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 9,6 mg/l |
| Soil | | 2,68 mg/kg |
| 1333-86-4 | Carbon Black | |
| Freshwater | | 5 mg/l |
| Marine water | | 5 mg/l |

8.2. Exposure controls
Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment
Eye/face protection

Eye glasses with side protection (EN 166)

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Hand protection

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber), Breakthrough time::

PVA (Polyvinyl alcohol), Breakthrough time::

NBR (Nitrile rubber), Breakthrough time::

Butyl caoutchouc (butyl rubber), Breakthrough time::

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

gas filtering equipment (EN 141), Filter material/medium: A/P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--|------------------------|
| Physical state: | Aerosol | |
| Colour: | black | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not applicable |
| Flammability: | | not applicable |
| Lower explosion limits: | | 1,5 vol. % |
| Upper explosion limits: | | 10,9 vol. % |
| Flash point: | | < -10 °C |
| Auto-ignition temperature: | | 210 °C |
| Decomposition temperature: | | not determined |
| pH-Value: | | not determined |
| Viscosity / kinematic: | | not determined |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. | |
| Solubility in other solvents | not determined | |
| Partition coefficient n-octanol/water: | | not determined |
| Vapour pressure: | | 4000 hPa |
| (at 20 °C) | | |
| Density (at 20 °C): | | 0,81 g/cm ³ |
| Relative vapour density: | | not determined |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

not determined

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

not determined

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Other safety characteristics

| | |
|----------------------|----------------|
| Evaporation rate: | not determined |
| Solvent content: | 72,5 % |
| Solid content: | 27,5 % |
| Viscosity / dynamic: | not determined |

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation gas) > 20000 ppm

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| CAS No | Chemical name | | | | |
|-----------|---|---------------|-----------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | |
| | oral | LD50 mg/kg | 5620 | Rat | |
| | dermal | LD50 mg/kg | >20000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | 50 mg/l | Rat | |
| 106-97-8 | butane | | | | |
| | inhalation (4 h) gas | LC50 ppm | 273000 | Rat | GESTIS |
| | reaction mass of ethylbenzene and xylene | | | | |
| | oral | LD50 mg/kg | 4300 | Rat | |
| | dermal | LD50 mg/kg | > 2000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | 20 mg/l | Rat | |
| | inhalation gas | ATE ppm | 4500 | | |
| | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | |
| | oral | LD50 mg/kg | >15000 | Rat | |
| | dermal | LD50 mg/kg | >3400 | Rat | |
| 1330-20-7 | xylene | | | | |
| | oral | LD50 mg/kg | 8700 | Rat | |
| | dermal | LD50 mg/kg | 2000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 mg/l | 10-20 | Rat | |
| | inhalation gas | ATE ppm | 4500 | | |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | oral | LD50 mg/kg | > 5000 | Rat | |
| | dermal | LD50 mg/kg | > 5000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | 5000 mg/l | Rat | |
| 100-41-4 | ethylbenzene | | | | |
| | oral | LD50 mg/kg | 3500 | Rat | GESTIS |
| | dermal | LD50 mg/kg | 15400 | Rabbit | GESTIS |
| | inhalation (4 h) vapour | LC50 | 17,2 mg/l | Rat | |
| | inhalation gas | ATE ppm | 4500 | | |
| | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | | | | |
| | oral | LD50 mg/kg | 3492 | Rat | |

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| | | | | | | |
|-------------|--|---------------|--------|--------|--|--|
| | dermal | LD50 mg/kg | >3160 | Rabbit | | |
| | inhalation vapour | LC50 mg/l | >6193 | Rat | | |
| 147900-93-4 | Fatty acids,C18-unsatd. , trimers, compds. with oleylamine | | | | | |
| | oral | LD50 mg/kg | > 1570 | Rat | | |
| 85711-55-3 | Fatty acids, tall-oil, compds. with oleylamine | | | | | |
| | oral | LD50 mg/kg | > 2000 | Rat | | |
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | | | | | |
| | oral | LD50 mg/kg | 3129 | Rat | | |
| | dermal | LD50 mg/kg | >2000 | Rat | | |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Fatty acids,C18-unsatd. , trimers, compds. with oleylamine; Fatty acids, tall-oil, compds. with oleylamine; Cobalt bis(2-ethylhexanoate))

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

Aspiration hazard

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

11.2. Information on other hazards
Endocrine disrupting properties

Endocrine disrupting potential No information available.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information
12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | |
|-----------|---|---------------|-----------|---------|--------------------------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | | |
| | Acute fish toxicity | LC50 | 230 mg/l | 96 h | Pimephales promelas (fathead minnow) | |
| | Acute algae toxicity | ErC50 mg/l | 3300 | | Desmodesmus subspicatus | 48 h |
| | Acute crustacea toxicity | EC50 | 717 mg/l | 48 h | Daphnia magna (Big water flea) | |
| | Acute bacteria toxicity | EC50 mg/l () | 2900 | | Pseudomonas putida | 16 h |
| | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | | |
| | Acute fish toxicity | LL50 mg/l | 10-30 | 96 h | Oncorhynchus mykiss (Rainbow trout) | |
| | Acute algae toxicity | ErC50 | 4,6 mg/l | 72 h | Pseudokirchneriella subcapitata | |
| | Acute crustacea toxicity | EL50 mg/l | 10-22 | 48 h | Daphnia magna (Big water flea) | |
| 1330-20-7 | xylene | | | | | |
| | Acute fish toxicity | LC50 | 86 mg/l | 96 h | Leuciscus idus (golden orfe) | |
| | Acute algae toxicity | ErC50 | 2-8 mg/l | | Selenastrum capricornutum | |
| | Acute crustacea toxicity | EC50 mg/l | 1-10 | 48 h | | |
| 100-41-4 | ethylbenzene | | | | | |
| | Acute fish toxicity | LC50 | 80 mg/l | 96 h | fish | GESTIS |
| | Acute algae toxicity | ErC50 | 5 mg/l | 72 h | alga | GESTIS |
| | Acute crustacea toxicity | EC50 mg/l | 4,75 | 48 h | | GESTIS |

12.2. Persistence and degradability

There are no data available on the mixture itself.

| CAS No | Chemical name | | | | |
|----------|---|--------|----|--------|--|
| | Method | Value | d | Source | |
| | Evaluation | | | | |
| 141-78-6 | ethyl acetate | | | | |
| | OECD 301D/ EEC 92/69/V, C.4-E | 100 % | 28 | | |
| | Readily biodegradable (according to OECD criteria). | | | | |
| | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | |
| | | 74,7 % | 28 | | |
| | Leicht biologisch abbaubar | | | | |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | | 80% | | | |
| | Readily biodegradable (according to OECD criteria). | | | | |

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|---------------|---------|
| 141-78-6 | ethyl acetate | 0,73 |
| 106-97-8 | butane | 2,89 |
| 100-41-4 | ethylbenzene | 3,15 |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

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

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information
Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Transport category: 2
 Tunnel restriction code: D

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Other applicable information (land transport)

E0

Marine transport (IMDG)

| | |
|--|----------|
| 14.1. UN number or ID number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |



| | |
|---------------------|-----------------------------|
| Marine pollutant: | no |
| Special Provisions: | 63, 190, 277, 327, 344, 959 |
| Limited quantity: | 1000 mL |
| Excepted quantity: | E0 |
| EmS: | F-D, S-U |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|---------------------|
| 14.1. UN number or ID number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS, flammable |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |



| | |
|--|----------------|
| Special Provisions: | A145 A167 A802 |
| Limited quantity Passenger: | 30 kg G |
| IATA-packing instructions - Passenger: | 203 |
| IATA-max. quantity - Passenger: | 75 kg |
| IATA-packing instructions - Cargo: | 203 |
| IATA-max. quantity - Cargo: | 150 kg |

Other applicable information (air transport)

E0

Passenger-LQ: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Gases under pressure

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

Stowage Code:

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code:

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28, Entry 40, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 73,0 % (592 g/l)

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

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

Water hazard class (D): 2 - obviously hazardous to water

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

15.2. Chemical safety assessment

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

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,8,9,14,16.

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Abbreviations and acronyms

Flam. Gas: Flammable gases
 Aerosol: Aerosols
 Liquefied gas
 Flam. Liq: Flammable liquids
 Acute Tox: Acute toxicity
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Repr: Reproductive toxicity
 STOT SE: Specific target organ toxicity - single exposure
 STOT RE: Specific target organ toxicity - repeated exposure
 Aquatic Chronic: Chronic aquatic hazard
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|-------------------------------|
| Aerosol 1; H222-H229 | On basis of test data |
| Skin Irrit. 2; H315 | Bridging principle "Aerosols" |
| Eye Irrit. 2; H319 | Bridging principle "Aerosols" |
| Skin Sens. 1; H317 | Bridging principle "Aerosols" |
| STOT SE 3; H336 | Bridging principle "Aerosols" |
| STOT RE 2; H373 | Bridging principle "Aerosols" |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H229 Pressurised container: May burst if heated.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361f Suspected of damaging fertility.
 H372 Causes damage to organs through prolonged or repeated exposure.

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| | |
|--------|--|
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)