

according to Regulation (EC) No 1907/2006

## DINITROL 445

Revision date: 12.11.2019

Product code: 5104

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

#### 1.1. Product identifier

DINITROL 445

#### 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

Company name: DINOL GmbH

Street: Pyrmonter Strasse 76

Place: D-32676 Luegde

Telephone: +49 (0) 5281 9829 80

Telefax: +49 (0) 5281 9829 860

Responsible Department: msds@dinol.com

#### 1.4. Emergency telephone

Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

number:

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Suspected of damaging the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

toluene

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

ethyl acetate

Signal word:

Danger

Pictograms:



##### Hazard statements

H225

Highly flammable liquid and vapour.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

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- |       |  |
|-------|--|
| H361d | Suspected of damaging the unborn child.                            |
| 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.                               |
| P233      | Keep container tightly closed.   |
| P260      | Do not breathe vapour/aerosol.   |
| P280      | Wear protective gloves and eye/face protection.  |
| P370+P378 | In case of fire: Use water to extinguish.  |
| P403+P235 | Store in a well-ventilated place. Keep cool.   |
| P501      | Dispose of contents/container to Dispose of this material and its container to hazardous or special waste collection point.. |

**Special labelling of certain mixtures**

- |        |   |
|--------|---|
| EUH208 | Contains Fatty acids, C18-unsatd. , trimers, compds. with oleylamine, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction. |
|--------|---|

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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### Hazardous components

| CAS No      | Chemical name   |              |                  | Quantity    |
|-------------|---|--------------|------------------|-------------|
|             | EC No   | Index No     | REACH No         |             |
|             | GHS Classification  |              |                  |             |
| 64742-49-0  | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics   |              |                  | 10 - < 15 % |
|             | 920-750-0   | 649-328-00-1 | 01-2119473851-33 |             |
|             | Flam. Liq. 2, Acute Tox. 4, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H332 H336 H304 H411   |              |                  |             |
| 108-88-3    | toluene   |              |                  | 5 - < 10 %  |
|             | 203-625-9   | 601-021-00-3 | 01-2119471310-51 |             |
|             | Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304   |              |                  |             |
| 64742-82-1  | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)   |              |                  | 5 - < 10 %  |
|             | 919-446-0   | 649-330-00-2 | 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  |              |                  | 5 - < 10 %  |
|             | 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 |              |                  |             |
| 141-78-6    | ethyl acetate   |              |                  | 3 - < 5 %   |
|             | 205-500-4   | 607-022-00-5 | 01-2119475103-46 |             |
|             | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066  |              |                  |             |
| 147900-93-4 | Fatty acids, C18-unsatd., trimers, compds. with oleylamine  |              |                  | 0.1 - < 1 % |
|             | 604-612-4   |              |                  |             |
|             | Skin Sens. 1B, STOT RE 1, Aquatic Chronic 2; H317 H372 H411   |              |                  |             |
| 85711-55-3  | Fatty acids, tall-oil, compds. with oleylamine  |              |                  | 0.1 - < 1 % |
|             | 288-315-1   |              | 01-2119974148-28 |             |
|             | Skin Sens. 1; H317  |              |                  |             |

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

### Further Information

Note: Each entry in the column EC number that begins with the number "9" is - until the publication the official registration number - one specified by ECHA provisional number for the substance. The above-mentioned substance(s) in this product is (are) identified by CAS number and indeed in Countries that are not subject to the REACH Regulation, or in a regulation which is not in accordance with new naming convention for hydrocarbons have been updated.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

If unconscious place in recovery position and seek medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
In all cases of doubt, or when symptoms persist, seek medical advice.

#### After inhalation

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

#### After contact with skin

Change contaminated clothing.  
Wash with plenty of water/Soap.

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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.

**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, Drowsiness, 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 (CO<sub>2</sub>), 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**

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**

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

**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**

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

**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**

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### Advice on safe handling

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.  
Keep away from sources of ignition - No smoking.  
Vapours are heavier than air and will spread at floor level.  
Vapours may form explosive mixtures with air.

### 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.  
Keep container dry.  
Keep away from heat. Protect against direct sunlight.

#### Hints on joint storage

Do not store together with: Oxidizing agents. Strong acid, strong alkalis

### 7.3. Specific end use(s)

Anti-corrosive coating

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

| CAS No     | Substance                  | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|------------|----------------------------|-----|-------------------|-----------|---------------|--------|
| 141-78-6   | Ethyl acetate              | 200 | -                 |           | TWA (8 h)     | WEL    |
|            |                            | 400 | -                 |           | STEL (15 min) | WEL    |
| 546-93-0   | Magnesite, respirable dust | -   | 4                 |           | TWA (8 h)     | WEL    |
| 14807-96-6 | Talc respirable dust       | -   | 1                 |           | TWA (8 h)     | WEL    |
| 108-88-3   | Toluene                    | 50  | 191               |           | TWA (8 h)     | WEL    |
|            |                            | 100 | 384               |           | STEL (15 min) | 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 |
|--------------------------|---|----------------|-------------------|-------|
| 64742-49-0               | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics                     |                |                   |       |
| Worker DNEL, long-term   | dermal  | systemic       | 773 mg/kg bw/day  |       |
| Worker DNEL, long-term   | inhalation  | systemic       | 2035 mg/m³        |       |
| Consumer DNEL, long-term | dermal  | systemic       | 699 mg/kg bw/day  |       |
| Consumer DNEL, long-term | oral  | systemic       | 699 mg/kg bw/day  |       |
| Consumer DNEL, long-term | inhalation  | systemic       | 608 mg/m³         |       |
| 108-88-3                 | toluene   |                |                   |       |
| Worker DNEL, long-term   | inhalation  | systemic       | 192 mg/m³         |       |
| Worker DNEL, acute       | inhalation  | systemic       | 384 mg/m³         |       |
| Worker DNEL, acute       | inhalation  | local          | 384 mg/m³         |       |
| Worker DNEL, long-term   | inhalation  | local          | 192 mg/m³         |       |
| Worker DNEL, long-term   | dermal  | systemic       | 384 mg/kg bw/day  |       |
| Consumer DNEL, long-term | inhalation  | systemic       | 56,5 mg/m³        |       |
| Consumer DNEL, acute     | inhalation  | systemic       | 226 mg/m³         |       |
| Consumer DNEL, acute     | inhalation  | local          | 226 mg/m³         |       |
| Consumer DNEL, long-term | inhalation  | local          | 56,5 mg/m³        |       |
| Consumer DNEL, long-term | dermal  | systemic       | 226 mg/kg bw/day  |       |
| Consumer DNEL, long-term | oral  | systemic       | 8,13 mg/kg bw/day |       |
| ,                        |   |                |                   |       |
| 64742-82-1               | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |                |                   |       |
| Worker DNEL, long-term   | inhalation  | systemic       | 330 mg/m³         |       |
| Worker DNEL, long-term   | dermal  | systemic       | 44 mg/kg bw/day   |       |
| Consumer DNEL, long-term | inhalation  | systemic       | 71 mg/m³          |       |
| 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  |                |                   |       |
| Worker DNEL, long-term   | dermal  | systemic       | 108 mg/kg bw/day  |       |
| Worker DNEL, acute       | inhalation  | systemic       | 289 mg/m³         |       |
| Worker DNEL, acute       | inhalation  | local          | 174 mg/m³         |       |
| Worker DNEL, long-term   | inhalation  | systemic       | 77 mg/m³          |       |
| Consumer DNEL, long-term | oral  | systemic       | 1,6 mg/kg bw/day  |       |
| Consumer DNEL, long-term | dermal  | systemic       | 108 mg/kg bw/day  |       |
| Consumer DNEL, acute     | inhalation  | systemic       | 174 mg/m³         |       |
| Consumer DNEL, acute     | inhalation  | local          | 174 mg/m³         |       |
| Consumer DNEL, long-term | inhalation  | systemic       | 14,8 mg/m³        |       |
| ,                        |   |                |                   |       |
| 546-93-0                 | Magnesium carbonate   |                |                   |       |
| Consumer DNEL, long-term | oral  | systemic       | 7,23 mg/kg bw/day |       |

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|                          |               |          |                        |
|--------------------------|---------------|----------|------------------------|
| Consumer DNEL, acute     | oral          | systemic | 7,23 mg/kg bw/day      |
| 141-78-6                 | ethyl acetate |          |                        |
| Worker DNEL, long-term   | inhalation    | systemic | 734 mg/m <sup>3</sup>  |
| Worker DNEL, acute       | inhalation    | systemic | 1468 mg/m <sup>3</sup> |
| Worker DNEL, long-term   | inhalation    | local    | 734 mg/m <sup>3</sup>  |
| Worker DNEL, acute       | inhalation    | local    | 1468 mg/m <sup>3</sup> |
| Worker DNEL, long-term   | dermal        | systemic | 63 mg/kg bw/day        |
| Consumer DNEL, long-term | inhalation    | systemic | 367 mg/m <sup>3</sup>  |
| Consumer DNEL, acute     | inhalation    | systemic | 734 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | dermal        | systemic | 37 mg/kg bw/day        |
| Consumer DNEL, long-term | oral          | systemic | 4,5 mg/kg bw/day       |

### PNEC values

| CAS No   | Substance     |             |
|--|---------------|-------------|
| Environmental compartment                        |               | Value       |
| 108-88-3   | toluene       |             |
| Freshwater                                       |               | 0,68 mg/l   |
| Marine water                                     |               | 0,68 mg/l   |
| Freshwater sediment                              |               | 16,39 mg/kg |
| Marine sediment                                  |               | 16,39 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |               | 13,61 mg/l  |
| Soil   |               | 2,89 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  |
| 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 |

### 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.

#### Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs.

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When using do not eat or drink.  
Wash hands before breaks and after work.  
Avoid contact with skin and eyes.  
Remove contaminated, saturated clothing immediately.  
Do not breathe gas/vapour/aerosol.

### Eye/face protection

Eye glasses with side protection (DIN EN 166)

### Hand protection

Tested protective gloves must be worn (EN ISO 374):  
FKM (fluoro rubber), Breakthrough time (maximum wearing time): 480 min.  
PVA (Polyvinyl alcohol), Breakthrough time (maximum wearing time): 480 min.  
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: | Liquid         |
| Colour:         | black          |
| Odour:          | characteristic |

#### Test method

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

### Changes in the physical state

|                |                |
|----------------|----------------|
| Melting point: | not determined |
|----------------|----------------|

|  |        |
|--|--------|
| Initial boiling point and boiling range: | >77 °C |
|--|--------|

|              |                 |
|--------------|-----------------|
| Flash point: | -4 °C DIN 51755 |
|--------------|-----------------|

### Flammability

|        |                |
|--------|----------------|
| Solid: | not applicable |
|--------|----------------|

|      |                |
|------|----------------|
| Gas: | not applicable |
|------|----------------|

### Explosive properties

not determined

|                         |            |
|-------------------------|------------|
| Lower explosion limits: | 0,8 vol. % |
|-------------------------|------------|

|                         |            |
|-------------------------|------------|
| Upper explosion limits: | 7,7 vol. % |
|-------------------------|------------|

|                       |         |
|-----------------------|---------|
| Ignition temperature: | >200 °C |
|-----------------------|---------|

### Auto-ignition temperature

|        |                |
|--------|----------------|
| Solid: | not applicable |
|--------|----------------|

|      |                |
|------|----------------|
| Gas: | not applicable |
|------|----------------|

|                            |                |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

### Oxidizing properties

not determined

|                                |        |
|--------------------------------|--------|
| Vapour pressure:<br>(at 20 °C) | 61 hPa |
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Density (at 20 °C): 1,17 g/cm<sup>3</sup> ISO 2811

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: not determined

Viscosity / dynamic: 1000 mPa·s  
(at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 43,6 %

### 9.2. Other information

Solid content: 56,4 %

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.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

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

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| CAS No     | Chemical name   |                    |         |        |        |
|------------|---|--------------------|---------|--------|--------|
|            | Exposure route  | Dose               | Species | Source | Method |
| 64742-49-0 | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics                     |                    |         |        |        |
|            | oral  | LD50 >5000 mg/kg   | Rat     |        |        |
|            | dermal  | LD50 >2800 mg/kg   | Rabbit  |        |        |
|            | inhalation vapour   | LC50 >23,3 mg/l    | Rat     |        |        |
|            | inhalation aerosol  | ATE 1,5 mg/l       |         |        |        |
| 108-88-3   | toluene   |                    |         |        |        |
|            | oral  | LD50 >2000 mg/kg   | Rat     |        |        |
|            | dermal  | LD50 12124 mg/kg   | Rabbit  |        |        |
|            | inhalation (4 h) vapour   | LC50 28,1 mg/l     | Rat     |        |        |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |                    |         |        |        |
|            | oral  | LD50 >150000 mg/kg | Rat     |        |        |
|            | dermal  | LD50 >3400 mg/kg   | Rat     |        |        |
| 1330-20-7  | xylene  |                    |         |        |        |
|            | oral  | LD50 4300 mg/kg    | Rat     | GESTIS |        |
|            | dermal  | LD50 >1700 mg/kg   | Rabbit  | GESTIS |        |
|            | inhalation vapour   | ATE 11 mg/l        |         |        |        |
|            | inhalation (4 h) aerosol  | LC50 21,7 mg/l     | Rat     | GESTIS |        |
| 141-78-6   | ethyl acetate   |                    |         |        |        |
|            | oral  | LD50 4935 mg/kg    | Rat     |        |        |
|            | dermal  | LD50 5000 mg/kg    | Rabbit  |        |        |
|            | inhalation (4 h) vapour   | LC50 56 mg/l       | Rat     |        |        |

### Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitising effects

Contains Fatty acids, C18-unsatd., trimers, compds. with oleylamine, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (toluene)

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

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

### STOT-single exposure

May cause drowsiness or dizziness.

### STOT-repeated exposure

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

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### Aspiration hazard

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

### Further information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No     | Chemical name   |                  |           |                                      |        |        |
|------------|---|------------------|-----------|--------------------------------------|--------|--------|
|            | Aquatic toxicity  | Dose             | [h]   [d] | Species                              | Source | Method |
| 64742-49-0 | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics                     |                  |           |                                      |        |        |
|            | Acute fish toxicity   | LC50 >13,4 mg/l  | 96 h      | Oncorhynchus mykiss (Rainbow trout)  |        |        |
|            | Acute algae toxicity  | ErC50 10-30 mg/l |           | Pseudokirchneriella subcapitata      |        |        |
|            | Acute crustacea toxicity  | EC50 3 mg/l      | 48 h      | Daphnia magna (Big water flea)       |        |        |
| 108-88-3   | toluene   |                  |           |                                      |        |        |
|            | Acute fish toxicity   | LC50 13 mg/l     | 96 h      | Carassius auratus                    | IUCLID |        |
|            | Acute algae toxicity  | ErC50 12,0 mg/l  | 72 h      | Pseudokirchneriella subcapitata      |        |        |
|            | Acute crustacea toxicity  | EC50 11,5 mg/l   | 48 h      | Daphnia magna (Big water flea)       |        |        |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |                  |           |                                      |        |        |
|            | Acute fish toxicity   | LC50 10 mg/l     | 96 h      | Oncorhynchus mykiss (Rainbow trout)  |        |        |
|            | Acute algae toxicity  | ErC50 4,6 mg/l   | 72 h      | Pseudokirchneriella subcapitata      |        |        |
|            | Acute crustacea toxicity  | EC50 10 mg/l     | 48 h      | Daphnia magna (Big water flea)       |        |        |
| 141-78-6   | ethyl acetate   |                  |           |                                      |        |        |
|            | Acute fish toxicity   | LC50 230 mg/l    | 96 h      | Pimephales promelas (fathead minnow) |        |        |
|            | Acute algae toxicity  | ErC50 3300 mg/l  |           | Desmodesmus subspicatus              | 48 h   |        |
|            | Acute crustacea toxicity  | EC50 717 mg/l    | 48 h      | Daphnia magna (Big water flea)       |        |        |
|            | Acute bacteria toxicity   | (2900 mg/l)      |           | Pseudomonas putida                   | 16 h   |        |

### 12.2. Persistence and degradability

There are no data available on the mixture itself.

| CAS No     | Chemical name   |        |    |        |
|------------|---|--------|----|--------|
|            | Method  | Value  | d  | Source |
|            | Evaluation  |        |    |        |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |        |    |        |
|            |   | 74,7 % | 28 |        |
|            | Leicht biologisch abbaubar  |        |    |        |
| 141-78-6   | ethyl acetate   |        |    |        |
|            | OECD 301D/ EEC 92/69/V, C.4-E   | 100 %  | 28 |        |
|            | Readily biodegradable (according to OECD criteria).                     |        |    |        |

### 12.3. Bioaccumulative potential

according to Regulation (EC) No 1907/2006

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There are no data available on the mixture itself.

### Partition coefficient n-octanol/water

| CAS No    | Chemical name | Log Pow |
|-----------|---------------|---------|
| 108-88-3  | toluene       | 2,73    |
| 1330-20-7 | xylene        | 3       |

### BCF

| CAS No    | Chemical name | BCF  | Species                             | Source |
|-----------|---------------|------|-------------------------------------|--------|
| 1330-20-7 | xylene        | 25,9 | Oncorhynchus mykiss (Rainbow trout) |        |

### 12.4. Mobility in soil

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

not applicable

### 12.6. Other adverse effects

No information available.

### Further information

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

Do not allow to enter into surface water or drains.

## 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

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other 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)

|  |                  |
|--|------------------|
| <b>14.1. UN number:</b>                  | UN 1139          |
| <b>14.2. UN proper shipping name:</b>    | Coating solution |
| <b>14.3. Transport hazard class(es):</b> | 3                |
| <b>14.4. Packing group:</b>              | II               |
| Hazard label:                            | 3                |



according to Regulation (EC) No 1907/2006

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Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

### Other applicable information (land transport)

E2

### Marine transport (IMDG)

**14.1. UN number:** UN 1139  
**14.2. UN proper shipping name:** Coating solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Marine pollutant: no  
 Special Provisions: -  
 Limited quantity: 5 L  
 EmS: F-E, S-E

### Other applicable information (marine transport)

E2

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1139  
**14.2. UN proper shipping name:** COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 1 L  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

### Other applicable information (air transport)

E2

Passenger-LQ: Y341

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

Warning: Flammable liquids

according to Regulation (EC) No 1907/2006

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### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## 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: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Entry 48: toluene

2004/42/EC (VOC): 43,6 % (510 g/l)

Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 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 juvenils 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 contaminating class (D): 2 - clearly water contaminating

### 15.2. Chemical safety assessment

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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

## SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2.

#### Abbreviations and acronyms

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%

according to Regulation (EC) No 1907/2006

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

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225      | On basis of test data    |
| Skin Irrit. 2; H315     | Calculation method       |
| Repr. 2; H361d          | Calculation method       |
| STOT SE 3; H336         | Calculation method       |
| STOT RE 2; H373         | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

### Relevant H and EUH statements (number and full text)

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.   |
| H226   | Flammable liquid and vapour.  |
| H304   | May be fatal if swallowed and enters airways.   |
| H312   | Harmful in contact with skin.   |
| H315   | Causes skin irritation.   |
| H317   | May cause an allergic skin reaction.  |
| H319   | Causes serious eye irritation.  |
| H332   | Harmful if inhaled.   |
| H335   | May cause respiratory irritation.   |
| H336   | May cause drowsiness or dizziness.  |
| H361d  | Suspected of damaging the unborn child.   |
| H372   | Causes damage to organs through prolonged or repeated exposure.   |
| 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.   |
| EUH208 | Contains Fatty acids, C18-unsatd. , trimers, compds. with oleylamine, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction. |

### 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.

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