

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

1.1. Product identifier

Product form : Mixture
 Product name : Organometallic dye for industrial use
 Product code : GG 501/11 H

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

1.2.1. Relevant identified uses

Main use category : Industrial use
 Use of the substance/mixture : Dyestuff/pigment

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : +90 (232) 877 2410

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Flammable liquids, Category 3 | H226 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| Germ cell mutagenicity, Category 2 | H341 |
| Carcinogenicity, Category 2 | H351 |
| Reproductive toxicity, Category 2 | H361 |
| Aspiration hazard, Category 1 | H304 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of causing cancer. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



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| | |
|--------------------------------|--|
| Signal word (CLP) | : Danger |
| Contains | : Naphthenic acid; toluene; Lemon oil; Eucalyptus oil; Lavandin Oil; Oils, spike; Fennel oil, sweet; Rosemary oil; turpentine, oil; Pine oil; rosin; colophony |
| Hazard statements (CLP) | : H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H341 - Suspected of causing genetic defects. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P201 - Obtain special instructions before use. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapours, spray, mist, gas. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P321 - Specific treatment (see supplemental first aid instruction on this label). P391 - Collect spillage. P501 - Dispose of contents and container to a hazardous or special waste collection point. |

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------|--|---------------|--|
| Oils, spike | CAS-No.: 8016-78-2 EC-No.: 616-988-7 | ≥ 10 – < 25 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Rosemary oil | CAS-No.: 84604-14-8 EC-No.: 283-291-9 | ≥ 5 – < 10 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 2, H371 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Terpineol | CAS-No.: 8000-41-7 EC-No.: 232-268-1 | ≥ 5 – < 10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |

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| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------------|--|
| Fennel oil, sweet | CAS-No.: 84455-29-8 EC-No.: 282-892-3 | ≥ 5 – < 10 | Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Chronic 2, H411 |
| Pine oil | CAS-No.: 8002-09-3 EC-No.: 692-006-0 | ≥ 3 – < 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| turpentine, oil | CAS-No.: 8006-64-2 EC-No.: 232-350-7 EC Index-No.: 650-002-00-6 | ≥ 3 – < 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| toluene | CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 | ≥ 3 – < 5 | Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 |
| Lavandin Oil | CAS-No.: 8022-15-9 EC-No.: 617-009-6 | ≥ 3 – < 5 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one | CAS-No.: 76-22-2 EC-No.: 200-945-0 | ≥ 1 – < 3 | Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Flam. Sol. 2, H228 STOT SE 2, H371 |
| Abietic acid | CAS-No.: 514-10-3 EC-No.: 208-178-3 | ≥ 1 – < 3 | Not classified |
| rosin; colophony | CAS-No.: 8050-09-7 EC-No.: 232-475-7 EC Index-No.: 650-015-00-7 | ≥ 1 – < 3 | Skin Sens. 1, H317 |
| Eucalyptus oil | CAS-No.: 8000-48-4 EC-No.: 296-357-7 | ≥ 1 – < 3 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Lemon oil | CAS-No.: 8008-56-8 EC-No.: 616-925-3 | ≥ 1 – < 3 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Bismuth tris(2-ethylhexanoate) | CAS-No.: 67874-71-9 EC-No.: 267-499-7 | ≥ 1 – < 3 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361d |

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| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------------|---|---------------|---|
| sulfur | CAS-No.: 7704-34-9 EC-No.: 231-722-6 EC Index-No.: 016-094-00-1 | ≥ 0.1 – < 1 | Skin Irrit. 2, H315 |
| Naphthenic acid | CAS-No.: 1338-24-5 EC-No.: 215-662-8 | ≥ 0.1 – < 1 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Chromium tris((2-ethylhexanoate) | CAS-No.: 3444-17-5 EC-No.: 222-357-3 | ≥ 0.1 – < 1 | Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Call a physician immediately. Never give anything by mouth to an unconscious person. People with over sensibility problems are not allowed to work or be exposed to the product. In all cases of doubt, or when symptoms persist, seek medical attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Do not induce vomiting. Call a physician immediately. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Eye irritation. |
| Symptoms/effects after ingestion | : Risk of lung oedema. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | : Strong water jet. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : Flammable liquid and vapour. Keep away from ignition sources (including static discharges). Contact with combustible material may cause fire. |
| Explosion hazard | : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. |
| Reactivity in case of fire | : At high temperature may liberate dangerous gases. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|-----------------------------|--|
| Precautionary measures fire | : Approach from upwind. Use water spray or fog for cooling exposed containers. Keep away from combustible materials. |
|-----------------------------|--|

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| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Cool adjacent tanks / containers / drums with water jet. Do not allow water to enter the vessels, a violent reaction may occur. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Keep upwind. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : High temperature decomposition products are harmful by inhalation. Inhalation of vapour can cause breathing difficulties. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not touch or walk on the spilled product. Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Only qualified personnel equipped with suitable protective equipment may intervene. |
| Emergency procedures | : Avoid contact with skin and eyes. Do not touch spilled material. Evacuate unnecessary personnel. Keep public away from danger area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area. Stop leak if safe to do so. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| For containment | : Collect spillage. Comply with the safety instructions. |
| Methods for cleaning up | : Notify authorities if product enters sewers or public waters. Clean up any spills as soon as possible, using an absorbent material to collect it. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Sweep or shovel spills into appropriate container for disposal. Minimise generation of dust. |
| Other information | : Dispose of materials or solid residues at an authorized site. Dispose of contaminated materials in accordance with current regulations. |

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | : Use adequate ventilation to keep vapour concentrations below applicable standard. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. |
|-----------------------------------|---|

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| | |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid dust formation. Avoid prolonged and repeated contact with skin. Contaminated work clothing should not be allowed out of the workplace. Do not spray on an open flame or other ignition source. |
| Hygiene measures | : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------------|---|
| Technical measures | : Ground/bond container and receiving equipment. Ensure adequate ventilation, especially in confined areas. Comply with applicable regulations. |
| Storage conditions | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. |
| Incompatible products | : Strong acids. Strong bases. Strong oxidizing agents. Peroxides. |
| Incompatible materials | : Extremely high or low temperatures. |
| Heat and ignition sources | : Do not smoke. KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources. |
| Information on mixed storage | : Keep away from food, drink and animal feeding stuffs. |
| Storage area | : Avoid: Extremely high or low temperatures. Heat and ignition sources. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

| toluene (108-88-3) | |
|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Toluene |
| IOEL TWA | 192 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 384 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Notes | skin |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| France - Occupational Exposure Limits | |
| Local name | Toluène |
| VME (OEL TWA) | 76.8 mg/m ³ |
| VME (OEL TWA) [ppm] | 20 ppm |
| VLE (OEL C/STEL) | 384 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 100 ppm |
| Note (FR) | Valeurs réglementaires contraignantes; substance classée toxique pour la reproduction de catégorie 2; risque de pénétration percutanée |
| Regulatory reference | Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487) |

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| toluene (108-88-3) | |
|--|--|
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Local name | Toluol |
| AGW (OEL TWA) [1] | 190 mg/m ³ |
| AGW (OEL TWA) [2] | 50 ppm |
| Peak exposure limitation factor | 4(II) |
| Remark | DFG,EU,H,Y |
| Regulatory reference | TRGS900 |
| Germany - Biological limit values (TRGS 903) | |
| Local name | Toluol |
| BLV | 600 µg/l Parameter: Toluol - Untersuchungsmaterial: B = Vollblut - Probenahmezeitpunkt: g) unmittelbar nach Exposition - Festlegung/Begründung: 11/2017 DFG 75 µg/l Parameter: Toluol - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 11/2018 DFG 1.5 mg/l Parameter: o-Kresol (nach Hydrolyse) - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende, c) bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten - Festlegung/Begründung: 11/2018 DFG |
| Regulatory reference | TRGS 903 |
| Italy - Occupational Exposure Limits | |
| Local name | Toluene |
| OEL TWA | 192 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| Notes | pelle |
| Regulatory reference | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. |
| Spain - Occupational Exposure Limits | |
| Local name | Tolueno |
| VLA-ED (OEL TWA) [1] | 192 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 50 ppm |
| VLA-EC (OEL STEL) | 384 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 100 ppm |

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| toluene (108-88-3) | |
|--|---|
| Notes | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) n° 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |
| Spain - Biological limit values | |
| Local name | Tolueno |
| BLV | 0.6 mg/l Parámetro: o-Cresol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB) 0.05 mg/l Parámetro: Tolueno - Medio: Sangre - Momento de muestreo: Principio de la última jornada de la semana laboral 0.08 mg/l Parámetro: Tolueno - Medio: orina - Momento de muestreo: Final de la jornada laboral |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |
| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) | |
| France - Occupational Exposure Limits | |
| Local name | Camphre |
| VME (OEL TWA) | 12 mg/m ³ |
| VME (OEL TWA) [ppm] | 2 ppm |
| Note (FR) | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Spain - Occupational Exposure Limits | |
| Local name | Alcanfor sintético |
| VLA-ED (OEL TWA) [1] | 13 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 2 ppm |
| VLA-EC (OEL STEL) | 19 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 3 ppm |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |
| turpentine, oil (8006-64-2) | |
| France - Occupational Exposure Limits | |
| Local name | Térébenthine |

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| turpentine, oil (8006-64-2) | |
|---|---|
| VME (OEL TWA) | 560 mg/m ³ |
| VME (OEL TWA) [ppm] | 100 ppm |
| Note (FR) | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Spain - Occupational Exposure Limits | |
| Local name | Aguarrás, incluyendo los monoterpenos |
| VLA-ED (OEL TWA) [1] | 113 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 20 ppm |
| Notes | Sen (Sensibilizante). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |
| rosin; colophony (8050-09-7) | |
| Spain - Occupational Exposure Limits | |
| Local name | Resina núcleo de soldadura (Colofonia) |
| Notes | m (Los productos de descomposición térmica en el ambiente de la resina núcleo de soldadura, colo-fonia, tienen un marcado carácter sensibilizante, lo que aconseja reducir la exposición laboral a los mismos lo máximo posible), Sen (Sensibilizante). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |
| 8.1.2. Recommended monitoring procedures | |
| No additional information available | |
| 8.1.3. Air contaminants formed | |
| No additional information available | |
| 8.1.4. DNEL and PNEC | |
| Naphthenic acid (1338-24-5) | |
| DNEL/DMEL (Workers) | |
| Acute - local effects, dermal | 1.81 mg/cm ² |
| Long-term - systemic effects, dermal | 3.33 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 7.76 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - local effects, dermal | 0.9 mg/cm ² |
| Long-term - systemic effects, oral | 0.167 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.91 mg/m ³ |
| Long-term - systemic effects, dermal | 1.67 mg/kg bodyweight/day |
| PNEC (STP) | |
| PNEC sewage treatment plant | 0.13 mg/l |
| toluene (108-88-3) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 384 mg/m ³ |
| Acute - local effects, inhalation | 384 mg/m ³ |
| Long-term - systemic effects, dermal | 384 mg/kg bodyweight/day |

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| toluene (108-88-3) | |
|--|---------------------------|
| Long-term - systemic effects, inhalation | 192 mg/m ³ |
| Long-term - local effects, inhalation | 192 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 226 mg/m ³ |
| Acute - local effects, inhalation | 226 mg/m ³ |
| Long-term - systemic effects, oral | 8.13 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 56.5 mg/m ³ |
| Long-term - systemic effects, dermal | 226 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 56.5 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.68 mg/l |
| PNEC aqua (marine water) | 0.68 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.68 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 16.39 mg/kg dwt |
| PNEC sediment (marine water) | 16.39 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 2.89 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 13.61 mg/l |
| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 10 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 17.6316 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 4.3478 mg/m ³ |
| Long-term - systemic effects, dermal | 5 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 9.303 µg/l |
| PNEC aqua (marine water) | 0.9303 µg/l |
| PNEC aqua (intermittent, freshwater) | 93.03 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.139 mg/kg dwt |
| PNEC sediment (marine water) | 0.0139 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 2.17 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 5.56 mg/kg food |

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| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) | |
|---|-----------------------------|
| PNEC (STP) | |
| PNEC sewage treatment plant | 1 mg/l |
| Lavandin Oil (8022-15-9) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 0.249 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.877 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.0889 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.132 mg/m ³ |
| Long-term - systemic effects, dermal | 0.0889 mg/kg bodyweight/day |
| turpentine, oil (8006-64-2) | |
| DNEL/DMEL (Workers) | |
| Acute - local effects, dermal | 161 µg/cm ² |
| Long-term - systemic effects, inhalation | 5.98 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - local effects, dermal | 81 µg/cm ² |
| Long-term - systemic effects, oral | 0.31 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.06 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 8.8 µg/l |
| PNEC aqua (marine water) | 0.88 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 2.27 mg/kg dwt |
| PNEC sediment (marine water) | 0.227 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.45 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 1.35 mg/kg food |
| PNEC (STP) | |
| PNEC sewage treatment plant | 6.6 mg/l |

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Gas mask.

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Do not eat, drink or smoke during use. Always wash hands after handling the product. Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing.

Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : brown. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : > 35 °C (1.013 hPa) |
| Flash point | : 33 °C (1.013 hPa) |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C | : ≤ 1100 hPa |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : practically insoluble. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : 1 mm ² /s (40 °C) |
| Viscosity, dynamic | : 60 mPa·s (23 °C) |
| Explosive properties | : No data available |

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Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Peroxides. Explosives.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Terpineol (8000-41-7) | |
|---|---|
| LD50 oral | 4300 mg/kg bodyweight |
| toluene (108-88-3) | |
| LD50 oral rat | 5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910 |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77 |
| Lemon oil (8008-56-8) | |
| LD50 oral rat | 2840 mg/kg |
| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) | |
| LD50 oral | 1500 mg/kg bodyweight |
| turpentine, oil (8006-64-2) | |
| LC50 Inhalation - Rat | 13.7 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 11,1 - 14,8 |
| Fennel oil, sweet (84455-29-8) | |
| LD50 oral | 3004 mg/kg bodyweight |

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| Eucalyptus oil (8000-48-4) | |
|--|--|
| LD50 oral | 2569 mg/kg bodyweight |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Suspected of causing genetic defects. |
| Carcinogenicity | : Suspected of causing cancer. |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : Not classified |
| toluene (108-88-3) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) | |
| STOT-single exposure | May cause damage to organs. |
| Rosemary oil (84604-14-8) | |
| STOT-single exposure | May cause damage to organs. |
| STOT-repeated exposure | : Not classified |
| toluene (108-88-3) | |
| LOAEL (oral, rat, 90 days) | 1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | 2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
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| Viscosity, kinematic | 1 mm ² /s (40 °C) |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - general | : Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |
| Not rapidly degradable | |

| Naphthenic acid (1338-24-5) | |
|------------------------------------|---|
| LC50 - Fish [1] | ≈ 5.62 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | ≈ 20 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | ≈ 29.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | ≈ 17.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | ≈ 29.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

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| Naphthenic acid (1338-24-5) | |
|-----------------------------|---|
| EC50 96h - Algae [2] | ≈ 18.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| toluene (108-88-3) | |
| LC50 - Fish [1] | 5.5 mg/l Test organisms (species): Oncorhynchus kisutch |
| LOEC (chronic) | 2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC (chronic) | 0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC chronic fish | 1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d' |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Completely empty the packaging prior to decontamination. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Comply with applicable regulations for solid waste disposal. |
| Additional information | : Flammable vapours may accumulate in the container. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. |
| Ecology - waste materials | : Avoid release to the environment. Do not allow into drains or water courses. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|--------------------------------|---------|---------|---------|---------|
| 14.1. UN number | | | | |
| UN 1263 | UN 1263 | UN 1263 | UN 1263 | UN 1263 |
| 14.2. UN proper shipping name | | | | |
| PAINT / PAINT RELATED MATERIAL | PAINT | Paint | PAINT | PAINT |

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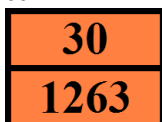
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| ADR | IMDG | IATA | ADN | RID |
|--|---|--|--|--|
| Transport document description | | | | |
| UN 1263 PAINT / PAINT RELATED MATERIAL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1263 Paint, 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
| | | | | |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

| | |
|---|---------------------------|
| Classification code (ADR) | : F1 |
| Special provisions (ADR) | : 163, 367, 650 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T2 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 |
| Tank code (ADR) | : LGBF |
| Vehicle for tank carriage | : FL |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Operation (ADR) | : S2 |
| Hazard identification number (Kemler No.) | : 30 |
| Orange plates | : |



Tunnel restriction code (ADR) : D/E

Transport by sea

| | |
|-----------------------------------|----------------------|
| Special provisions (IMDG) | : 163, 223, 367, 955 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| Special packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T2 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-E |

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EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3, A72, A192
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 163, 367, 650
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 163, 367, 650
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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15.1.2. National regulations

| France | |
|-----------------------|---|
| Occupational diseases | |
| Code | Description |
| RG 4 BIS | Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them |
| RG 65 | Eczematiform lesions of allergic mechanism |
| RG 66 | Occupational rhinitis and asthma |
| RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

Germany

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK)

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Storage class (LGK, TRGS 510)

: LGK 3 - Flammable liquids

Joint storage table

| | | | | |
|----------|---------|----------|----------|-----------|
| LGK 1 | LGK 2A | LGK 2B | LGK 3 | LGK 4.1A |
| LGK 4.1B | LGK 4.2 | LGK 4.3 | LGK 5.1A | LGK 5.1B |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C |
| LGK 6.1D | LGK 6.2 | LGK 7 | LGK 8A | LGK 8B |
| LGK 10 | LGK 11 | LGK 12 | LGK 13 | LGK 10-13 |

Joint storage not permitted for

: LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.1B, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13

Joint storage permitted for

: LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms | |
|----------------------------|---|
| COD | Chemical oxygen demand (COD) |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CAS | Chemical Abstracts Service (division of the American Chemical Society) |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |

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| Abbreviations and acronyms | |
|----------------------------|---|
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| CAS-No. | Chemical Abstract Service number |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| IOELV | Indicative Occupational Exposure Limit Value |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| N.O.S. | Not Otherwise Specified |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| Pow (log) | n-octanol/water partition coefficient |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TRGS | Technical Rules for Hazardous Substances |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

Data sources : Classification according to Regulation (EC) No. 1272/2008 [CLP], ECHA (European Chemicals Agency). Supplier's safety documents.

| Full text of H- and EUH-statements | |
|------------------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |

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| Full text of H- and EUH-statements | |
|------------------------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Flam. Sol. 2 | Flammable solids, Category 2 |
| Muta. 2 | Germ cell mutagenicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 2 | Specific target organ toxicity — Single exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| 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. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H371 | May cause damage to organs. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| 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. |

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Full text of H- and EUH-statements

| | |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

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