

# Andritz Lube Oil M68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 05.12.2014 Revision date: 27.02.2024 Supersedes version of: 07.04.2023 Version: 4.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Andritz Lube Oil M68  
Product code : 132.995.955

#### 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, Professional use  
Function or use category : Hydraulic fluids and additives

##### 1.2.2. Uses advised against

No additional information available

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

Andritz / 77  
van Ewijckskade 1G  
NL– Anna Paulowna  
T +31 (0)78 6527652  
[technical@77lubricants.nl](mailto:technical@77lubricants.nl) - [www.77lubricants.nl](http://www.77lubricants.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)78 6527652  
Monday to Friday: 09:00 - 16:00 (CET)

| Country                 | Organisation/Company   | Address   | Emergency number   | Comment                              |
|-------------------------|--|---|--|--------------------------------------|
| Australia               | NSW Poisons Information Centre<br>The Children's Hospital at Westmead                            | Locked Bag 4001<br>NSW 2145                                 | 13 11 26   |                                      |
| Ireland                 | National Poisons Information Centre<br>Beaumont Hospital   | PO Box 1297<br>Beaumont Road<br>9 Dublin                    | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| Israel                  | Israel Poison Information Center<br>Rambam Health Care Campus                                    | 6 Ha'Aliya Street<br>31096                                  | +972 4 854 1900  |                                      |
| Jordan                  | National Drug & Poison Information<br>Center of Jordan   |   | 0798506755<br>00962-6-5353444  |                                      |
| Malta                   | Medicines & Poisons Info Office  | Mater Dei Hospital<br>Msida<br>MSD 2090 Msida               | +356 2545 6508   |                                      |
| Saudi Arabia            | Poison Control Center-Riyadh   | General Directorate of Health<br>Affairs<br>Medial Province | +966 112324180<br>+966 112324189   |                                      |
| United Arab<br>Emirates | Health Authority – Abu Dhabi (HAAD)<br>Poison & Drug Information Center (PDIC)                   | P.O. Box 5674   | + 800-424  |                                      |
| United Kingdom          | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St<br>Thomas' Hospital Trust | Avonley Road<br>SE14 5ER                                    | +44 20 7188 7188   |                                      |
| United Kingdom          | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital              | Grosvenor Road<br>BT12 6BA                                  | 0344 892 0111  | Only for healthcare<br>professionals |

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### SECTION 2: Hazards identification

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

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

Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

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

##### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

|                                |   |   |
|--------------------------------|---|---|
| Signal word (CLP)              | : | -   |
| Hazard statements (CLP)        | : | H412 - Harmful to aquatic life with long lasting effects.   |
| Precautionary statements (CLP) | : | P273 - Avoid release to the environment.<br>P501 - Dispose of contents and container to an approved waste disposal plant. |
| EUH-statements                 | : | EUH208 - Contains N-Phenyl-1-naphthylamin(90-30-2). May produce an allergic reaction.                                     |

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name   | Product identifier   | %                  | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|--------------------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 64742-54-7<br>EC-No.: 265-157-1<br>EC Index-No.: 649-467-00-8<br>REACH-no: 01-2119484627-25 | $\geq 55 - < 75$   | Not classified   |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil<br>substance with a Community workplace exposure limit  | CAS-No.: 72623-87-1<br>EC-No.: 276-738-4<br>EC Index-No.: 649-483-00-5<br>REACH-no: 01-2119474889-13 | $\geq 25 - < 45$   | Asp. Tox. 1, H304  |
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, GB, IE, LV, NL, RO, SE, CH); substance with a Community workplace exposure limit  | EC-No.: 922-153-0<br>REACH-no: 01-2119451097-39  | $\geq 0,1 - < 0,3$ | Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 (M=0)   |
| N-Phenyl-1-naphthylamin<br>substance with national workplace exposure limit(s) (DE, NL)  | CAS-No.: 90-30-2<br>EC-No.: 201-983-0  | < 0,3              | Acute Tox. 4 (Oral), H302<br>Skin Sens. 1, H317<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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| Name  | Product identifier   | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|--|-------|--|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based<br>substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit                   | CAS-No.: 72623-86-0<br>EC-No.: 276-737-9<br>EC Index-No.: 649-482-00-X<br>REACH-no: 01-2119474878-16 | < 0,1 | Asp. Tox. 1, H304  |
| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics<br>substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, HR, NL, PL, CH);<br>substance with a Community workplace exposure limit  | EC-No.: 920-901-0<br>REACH-no: 01-2119456810-40  | < 0,1 | Asp. Tox. 1, H304  |
| Distillates (petroleum), hydrotreated light paraffinic<br>substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit | CAS-No.: 64742-55-8<br>EC-No.: 265-158-7<br>EC Index-No.: 649-468-00-3<br>REACH-no: 01-2119487077-29 | < 0,1 | Not classified   |
| Toluene<br>substance with national workplace exposure limit(s) (AT, DE, DK, FI, FR, GB, NL, SE, NO, CH); substance with a Community workplace exposure limit  | CAS-No.: 108-88-3<br>EC-No.: 203-625-9<br>EC Index-No.: 601-021-00-3<br>REACH-no: 01-2119471310-51   | < 0,1 | Flam. Liq. 2, H225<br>Repr. 2, H361d<br>Asp. Tox. 1, H304<br>STOT RE 2, H373<br>Skin Irrit. 2, H315<br>STOT SE 3, H336   |
| diphenylamine<br>substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, IT, LT, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit  | CAS-No.: 122-39-4<br>EC-No.: 204-539-4<br>EC Index-No.: 612-026-00-5<br>REACH-no: 01-2119488966-13   | < 0,1 | Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 1-naphtol<br>substance with national workplace exposure limit(s) (LT, LV, RO)   | CAS-No.: 90-15-3<br>EC-No.: 201-969-4<br>EC Index-No.: 604-029-00-5                                  | < 0,1 | Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Oral), H302<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318   |
| naphthalene<br>substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE, NO, CH); substance with a Community workplace exposure limit  | CAS-No.: 91-20-3<br>EC-No.: 202-049-5<br>EC Index-No.: 601-052-00-2<br>REACH-no: 01-2119561346-37    | < 0,1 | Acute Tox. 4 (Oral), H302<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| Methanol<br>substance with national workplace exposure limit(s) (NL)  | CAS-No.: 67-56-1<br>EC-No.: 200-659-6<br>EC Index-No.: 603-001-00-X                                  | < 0,1 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>STOT SE 1, H370                               |

### Specific concentration limits:

| Name   | Product identifier                              | Specific concentration limits (%) |
|--|---|-----------------------------------|
| N-Phenyl-1-naphthylamin                          | CAS-No.: 90-30-2<br>EC-No.: 201-983-0           | (10 ≤ C < 100) STOT RE 2, H373    |
| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics | EC-No.: 920-901-0<br>REACH-no: 01-2119456810-40 | (1 ≤ C < 100) EUH066              |

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| Specific concentration limits: |   |  |
|--------------------------------|---|--|
| Name                           | Product identifier  | Specific concentration limits (%)  |
| Methanol                       | CAS-No.: 67-56-1<br>EC-No.: 200-659-6<br>EC Index-No.: 603-001-00-X | ( $3 \leq C < 10$ ) STOT SE 2, H371<br>( $10 \leq C < 100$ ) STOT SE 1, H370 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                         |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.           |

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

No additional information available

### 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 powder. Foam. Carbon dioxide.                |
| Unsuitable extinguishing media | : Do not use a water jet since it may cause the fire to spread. |

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

|  |  |
|--|--|
| Fire hazard                                      | : Will ignite if exposed to intensive heat.  |
| Explosion hazard                                 | : Not expected to be a fire/explosion hazard under normal conditions of use. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. |
| Reactivity in case of fire                       | : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.   |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Evacuate area.   |
| Firefighting instructions      | : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers.                                |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

## SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and public waters. |
|------------------|--|

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment.   |
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Avoid any direct contact with the product. Stop leaks if it can be done without personal risk. |

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### 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".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.

Methods for cleaning up : Take up liquid spill into absorbent material. Clear up spills immediately and dispose of waste safely. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. May be reused following decontamination. Clean contaminated surfaces with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Empty containers retain product residue and can be hazardous.

Precautions for safe handling : Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe fumes from fires or vapours from decomposition. Avoid breathing dust, fume, gas, mist, spray, vapours. Ensure good ventilation of the work station. Spilled material may present a slipping hazard. Clean spills promptly.

Handling temperature : ≤ 40 °C

Hygiene measures : Routine housekeeping should be instituted. 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 : Provide local exhaust or general room ventilation.

Storage conditions : Store in a well-ventilated place. Keep cool. Store away from oxidising agents. Protect from sunlight. Store in original container. Always keep in containers made of the same material as the supply container. Do not store in open, inadequate, mislabeled packaging. Opened containers must be carefully closed and kept upright to avoid leakage. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Empty containers retain product residue and can be hazardous. Store in a well-ventilated place. Keep cool.

Storage temperature : ≤ 40 °C

Information on mixed storage : Store away from strong oxidizers, strong bases, strong acids.

Storage area : Store at ambient temperature.

Special rules on packaging : Keep container tightly closed and dry.

### 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

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

#### EU - Indicative Occupational Exposure Limit (IOEL)

|          |                     |
|----------|---------------------|
| IOEL TWA | 5 mg/m <sup>3</sup> |
|----------|---------------------|

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| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |  |
|---|--|
| Austria - Occupational Exposure Limits                              |  |
| MAK (OEL TWA)   | 5 mg/m <sup>3</sup>  |
| Belgium - Occupational Exposure Limits                              |  |
| OEL TWA   | 5 mg/m <sup>3</sup> Form: mist   |
| OEL STEL  | 10 mg/m <sup>3</sup> Form: mist  |
| Bulgaria - Occupational Exposure Limits                             |  |
| OEL TWA   | 5 mg/m <sup>3</sup>  |
| Croatia - Occupational Exposure Limits                              |  |
| GVI (OEL TWA) [1]   | 5 mg/m <sup>3</sup>  |
| Czech Republic - Occupational Exposure Limits                       |  |
| PEL (OEL TWA)   | 5 mg/m <sup>3</sup> Form: aerosol  |
| NPK-P (OEL C)   | 10 mg/m <sup>3</sup> Form: aerosol   |
| Denmark - Occupational Exposure Limits                              |  |
| OEL TWA [1]   | 1 mg/m <sup>3</sup> Form: mist and particles   |
| Estonia - Occupational Exposure Limits                              |  |
| OEL TWA   | 5 mg/m <sup>3</sup>  |
| Finland - Occupational Exposure Limits                              |  |
| HTP (OEL TWA) [1]   | 5 mg/m <sup>3</sup> Form: mist   |
| France - Occupational Exposure Limits                               |  |
| VME (OEL TWA)   | 5 mg/m <sup>3</sup>  |
| Germany - Occupational Exposure Limits (TRGS 900)                   |  |
| AGW (OEL TWA) [1]   | 5 mg/m <sup>3</sup>  |
| Greece - Occupational Exposure Limits                               |  |
| OEL TWA   | 5 mg/m <sup>3</sup> Form: mist   |
| Hungary - Occupational Exposure Limits                              |  |
| AK (OEL TWA)  | 5 mg/m <sup>3</sup> Form: mist   |
| Ireland - Occupational Exposure Limits                              |  |
| OEL TWA [1]   | 5 mg/m <sup>3</sup> Form: inhalable fraction Ireland. OELVs, Schedule 1 (Code of Practice for Chemical Agents Regulations), as amended (01 2020) |
| Italy - Occupational Exposure Limits                                |  |
| OEL TWA   | 5 mg/m <sup>3</sup>  |
| Latvia - Occupational Exposure Limits                               |  |
| OEL TWA   | 5 mg/m <sup>3</sup>  |
| Lithuania - Occupational Exposure Limits                            |  |
| IPRV (OEL TWA)  | 1 mg/m <sup>3</sup> Form: mist   |
| TPRV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: mist   |
| Netherlands - Occupational Exposure Limits                          |  |
| TGG-8u (OEL TWA)  | 5 mg/m <sup>3</sup> Form: mist   |

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|  |   |
|--|---|
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> |   |
| <b>Poland - Occupational Exposure Limits</b>                               |   |
| NDS (OEL TWA)  | 5 mg/m <sup>3</sup> Form: Inhalable fraction    |
| <b>Portugal - Occupational Exposure Limits</b>                             |   |
| OEL TWA  | 5 mg/m <sup>3</sup> Form: inhalable fraction    |
| <b>Romania - Occupational Exposure Limits</b>                              |   |
| OEL TWA  | 5 mg/m <sup>3</sup>                             |
| OEL STEL   | 10 mg/m <sup>3</sup>                            |
| <b>Slovakia - Occupational Exposure Limits</b>                             |   |
| NPHV (OEL TWA) [1]   | 1 mg/m <sup>3</sup> Form: liquid aerosol, fumes |
| NPHV (OEL TWA) [2]   | 5 ppm Form: liquid aerosol, fumes               |
| NPHV (OEL STEL)  | 3 mg/m <sup>3</sup> Form: liquid aerosol, fumes |
| NPHV (OEL STEL) [ppm]  | 15 ppm Form: liquid aerosol, fumes              |
| <b>Slovenia - Occupational Exposure Limits</b>                             |   |
| OEL TWA  | 5 mg/m <sup>3</sup>                             |
| <b>Spain - Occupational Exposure Limits</b>                                |   |
| VLA-ED (OEL TWA) [1]   | 5 mg/m <sup>3</sup> Form: mist                  |
| VLA-EC (OEL STEL)  | 10 mg/m <sup>3</sup> Form: mist                 |
| <b>Sweden - Occupational Exposure Limits</b>                               |   |
| NGV (OEL TWA)  | 1 mg/m <sup>3</sup> Form: mist and fume         |
| KGV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: mist and fume         |
| <b>United Kingdom - Occupational Exposure Limits</b>                       |   |
| WEL TWA (OEL TWA) [1]  | 5 mg/m <sup>3</sup>                             |
| <b>Iceland - Occupational Exposure Limits</b>                              |   |
| OEL TWA  | 1 mg/m <sup>3</sup> Form: particulates          |
| <b>Norway - Occupational Exposure Limits</b>                               |   |
| Grenseverdi (OEL TWA) [1]  | 1 mg/m <sup>3</sup> Form: mineral oil particles |
| Grenseverdi (OEL TWA) [2]  | 50 mg/m <sup>3</sup> Form: vapor                |
| <b>Switzerland - Occupational Exposure Limits</b>                          |   |
| MAK (OEL TWA) [1]  | 5 mg/m <sup>3</sup> Form: inhalable fraction    |
| <b>USA - ACGIH - Occupational Exposure Limits</b>                          |   |
| ACGIH OEL TWA  | 5 mg/m <sup>3</sup>                             |
| ACGIH OEL STEL   | 10 mg/m <sup>3</sup>                            |
| <b>N-Phenyl-1-naphthylamin (90-30-2)</b>                                   |   |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b>                   |   |
| AGW (OEL TWA) [1]  | 2 mg/m <sup>3</sup>                             |
| <b>Netherlands - Occupational Exposure Limits</b>                          |   |
| TGG-8u (OEL TWA)   | 2 mg/m <sup>3</sup>                             |
| TGG-15min (OEL STEL)   | 4 mg/m <sup>3</sup>                             |

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|   |                       |
|---|-----------------------|
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b> |                       |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b>   |                       |
| IOEL TWA  | 5 mg/m <sup>3</sup>   |
| <b>Austria - Occupational Exposure Limits</b>               |                       |
| MAK (OEL TWA)   | 5 mg/m <sup>3</sup>   |
| <b>Belgium - Occupational Exposure Limits</b>               |                       |
| OEL TWA   | 5 mg/m <sup>3</sup>   |
| OEL STEL  | 10 mg/m <sup>3</sup>  |
| <b>Czech Republic - Occupational Exposure Limits</b>        |                       |
| PEL (OEL TWA)   | 200 mg/m <sup>3</sup> |
| <b>Denmark - Occupational Exposure Limits</b>               |                       |
| OEL TWA [1]   | 1 mg/m <sup>3</sup>   |
| OEL STEL  | 2 mg/m <sup>3</sup>   |
| <b>Ireland - Occupational Exposure Limits</b>               |                       |
| OEL TWA [1]   | 5 mg/m <sup>3</sup>   |
| <b>Latvia - Occupational Exposure Limits</b>                |                       |
| OEL TWA   | 5 mg/m <sup>3</sup>   |
| <b>Netherlands - Occupational Exposure Limits</b>           |                       |
| TGG-8u (OEL TWA)  | 5 mg/m <sup>3</sup>   |
| <b>Romania - Occupational Exposure Limits</b>               |                       |
| OEL TWA   | 100 mg/m <sup>3</sup> |
| OEL STEL  | 200 mg/m <sup>3</sup> |
| <b>Spain - Occupational Exposure Limits</b>                 |                       |
| VLA-ED (OEL TWA) [1]  | 5 mg/m <sup>3</sup>   |
| VLA-EC (OEL STEL)   | 10 mg/m <sup>3</sup>  |
| <b>Sweden - Occupational Exposure Limits</b>                |                       |
| NGV (OEL TWA)   | 1 mg/m <sup>3</sup>   |
| KGV (OEL STEL)  | 3 mg/m <sup>3</sup>   |
| <b>United Kingdom - Occupational Exposure Limits</b>        |                       |
| WEL TWA (OEL TWA) [1]                                       | 5 mg/m <sup>3</sup>   |
| WEL STEL (OEL STEL)   | 10 mg/m <sup>3</sup>  |
| <b>Switzerland - Occupational Exposure Limits</b>           |                       |
| MAK (OEL TWA) [1]   | 5 mg/m <sup>3</sup>   |
| <b>USA - ACGIH - Occupational Exposure Limits</b>           |                       |
| ACGIH OEL TWA   | 5 mg/m <sup>3</sup>   |
| <b>1-naphtol (90-15-3)</b>                                  |                       |
| <b>Latvia - Occupational Exposure Limits</b>                |                       |
| OEL TWA   | 0,5 mg/m <sup>3</sup> |
| <b>Lithuania - Occupational Exposure Limits</b>             |                       |
| IPRV (OEL TWA)  | 0,5 mg/m <sup>3</sup> |



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| 1-naphtol (90-15-3)                                |                      |
|--|----------------------|
| Romania - Occupational Exposure Limits             |                      |
| OEL TWA  | 10 mg/m <sup>3</sup> |
| OEL STEL   | 15 mg/m <sup>3</sup> |
| diphenylamine (122-39-4)                           |                      |
| EU - Indicative Occupational Exposure Limit (IOEL) |                      |
| IOEL TWA   | 10 mg/m <sup>3</sup> |
| IOEL STEL  | 20 mg/m <sup>3</sup> |
| Austria - Occupational Exposure Limits             |                      |
| MAK (OEL TWA)                                      | 5 mg/m <sup>3</sup>  |
| MAK (OEL TWA) [ppm]                                | 0,7 ppm              |
| MAK (OEL STEL)                                     | 10 mg/m <sup>3</sup> |
| MAK (OEL STEL) [ppm]                               | 1,4 ppm              |
| Belgium - Occupational Exposure Limits             |                      |
| OEL TWA  | 10 mg/m <sup>3</sup> |
| Bulgaria - Occupational Exposure Limits            |                      |
| OEL TWA  | 10 mg/m <sup>3</sup> |
| Croatia - Occupational Exposure Limits             |                      |
| GVI (OEL TWA) [1]                                  | 10 mg/m <sup>3</sup> |
| KGVI (OEL STEL)                                    | 20 mg/m <sup>3</sup> |
| Czech Republic - Occupational Exposure Limits      |                      |
| PEL (OEL TWA)                                      | 10 mg/m <sup>3</sup> |
| NPK-P (OEL C)                                      | 20 mg/m <sup>3</sup> |
| Denmark - Occupational Exposure Limits             |                      |
| OEL TWA [1]  | 5 mg/m <sup>3</sup>  |
| Estonia - Occupational Exposure Limits             |                      |
| OEL TWA  | 10 mg/m <sup>3</sup> |
| Finland - Occupational Exposure Limits             |                      |
| HTP (OEL TWA) [1]                                  | 5 mg/m <sup>3</sup>  |
| HTP (OEL STEL)                                     | 10 mg/m <sup>3</sup> |
| France - Occupational Exposure Limits              |                      |
| VME (OEL TWA)                                      | 10 mg/m <sup>3</sup> |
| Germany - Occupational Exposure Limits (TRGS 900)  |                      |
| AGW (OEL TWA) [1]                                  | 5 mg/m <sup>3</sup>  |
| Greece - Occupational Exposure Limits              |                      |
| OEL TWA  | 10 mg/m <sup>3</sup> |
| OEL STEL   | 20 mg/m <sup>3</sup> |
| Ireland - Occupational Exposure Limits             |                      |
| OEL TWA [1]  | 10 mg/m <sup>3</sup> |
| OEL STEL   | 20 mg/m <sup>3</sup> |

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| diphenylamine (122-39-4)  |                                |
|---|--------------------------------|
| Italy - Occupational Exposure Limits  |                                |
| OEL TWA   | 10 mg/m <sup>3</sup>           |
| Lithuania - Occupational Exposure Limits  |                                |
| IPRV (OEL TWA)  | 4 mg/m <sup>3</sup>            |
| TPRV (OEL STEL)   | 12 mg/m <sup>3</sup>           |
| Poland - Occupational Exposure Limits   |                                |
| NDS (OEL TWA)   | 8 mg/m <sup>3</sup>            |
| Portugal - Occupational Exposure Limits   |                                |
| OEL TWA   | 10 mg/m <sup>3</sup>           |
| Romania - Occupational Exposure Limits  |                                |
| OEL TWA   | 4 mg/m <sup>3</sup>            |
| OEL STEL  | 6 mg/m <sup>3</sup>            |
| Slovakia - Occupational Exposure Limits   |                                |
| NPHV (OEL TWA) [1]  | 5 mg/m <sup>3</sup> 8 Hrs      |
| Slovenia - Occupational Exposure Limits   |                                |
| OEL TWA   | 5 mg/m <sup>3</sup>            |
| OEL STEL  | 10 mg/m <sup>3</sup>           |
| Spain - Occupational Exposure Limits  |                                |
| VLA-ED (OEL TWA) [1]  | 10 mg/m <sup>3</sup>           |
| Sweden - Occupational Exposure Limits   |                                |
| NGV (OEL TWA)   | 4 mg/m <sup>3</sup>            |
| KGV (OEL STEL)  | 12 mg/m <sup>3</sup>           |
| TGV (OEL C)   | 4 mg/m <sup>3</sup>            |
| United Kingdom - Occupational Exposure Limits                                     |                                |
| WEL TWA (OEL TWA) [1]   | 10 mg/m <sup>3</sup>           |
| WEL STEL (OEL STEL)   | 20 mg/m <sup>3</sup>           |
| Iceland - Occupational Exposure Limits  |                                |
| OEL TWA   | 5 mg/m <sup>3</sup>            |
| Norway - Occupational Exposure Limits   |                                |
| Grenseverdi (OEL TWA) [1]   | 5 mg/m <sup>3</sup>            |
| Switzerland - Occupational Exposure Limits  |                                |
| MAK (OEL TWA) [1]   | 10 mg/m <sup>3</sup>           |
| USA - ACGIH - Occupational Exposure Limits  |                                |
| ACGIH OEL TWA   | 10 mg/m <sup>3</sup>           |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |                                |
| EU - Indicative Occupational Exposure Limit (IOEL)                                |                                |
| IOEL TWA  | 5 mg/m <sup>3</sup>            |
| Belgium - Occupational Exposure Limits  |                                |
| OEL TWA   | 5 mg/m <sup>3</sup> Form: mist |

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| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |   |
|---|---|
| OEL STEL  | 10 mg/m <sup>3</sup> Form: mist                 |
| <b>Bulgaria - Occupational Exposure Limits</b>                                    |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| <b>Czech Republic - Occupational Exposure Limits</b>                              |   |
| PEL (OEL TWA)   | 5 mg/m <sup>3</sup> Form: aerosol               |
| NPK-P (OEL C)   | 10 mg/m <sup>3</sup> Form: aerosol              |
| <b>Denmark - Occupational Exposure Limits</b>                                     |   |
| OEL TWA [1]   | 1 mg/m <sup>3</sup> Form: mist and particles    |
| OEL STEL  | 2 mg/m <sup>3</sup> Form: mist and particles    |
| <b>Finland - Occupational Exposure Limits</b>                                     |   |
| HTP (OEL TWA) [1]   | 5 mg/m <sup>3</sup> Form: Mist                  |
| <b>Greece - Occupational Exposure Limits</b>                                      |   |
| OEL TWA   | 5 mg/m <sup>3</sup> Form: Mist                  |
| <b>Hungary - Occupational Exposure Limits</b>                                     |   |
| AK (OEL TWA)  | 5 mg/m <sup>3</sup> Form: Mist                  |
| <b>Ireland - Occupational Exposure Limits</b>                                     |   |
| OEL TWA [2]   | 5 ppm Form: Inhalable fraction                  |
| <b>Latvia - Occupational Exposure Limits</b>                                      |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| <b>Lithuania - Occupational Exposure Limits</b>                                   |   |
| IPRV (OEL TWA)  | 1 mg/m <sup>3</sup> Form: mist                  |
| TPRV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: mist                  |
| <b>Netherlands - Occupational Exposure Limits</b>                                 |   |
| TGG-8u (OEL TWA)  | 5 mg/m <sup>3</sup> Form: mist                  |
| <b>Poland - Occupational Exposure Limits</b>                                      |   |
| NDS (OEL TWA)   | 5 mg/m <sup>3</sup> Form: Inhalable fraction    |
| <b>Portugal - Occupational Exposure Limits</b>                                    |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| OEL STEL  | 10 mg/m <sup>3</sup>                            |
| <b>Romania - Occupational Exposure Limits</b>                                     |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| OEL STEL  | 10 mg/m <sup>3</sup>                            |
| <b>Slovakia - Occupational Exposure Limits</b>                                    |   |
| NPHV (OEL TWA) [1]  | 1 mg/m <sup>3</sup> Form: liquid aerosol, fumes |
| NPHV (OEL TWA) [2]  | 5 ppm Form: liquid aerosol, fumes               |
| NPHV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: liquid aerosol, fumes |
| NPHV (OEL STEL) [ppm]   | 15 ppm Form: liquid aerosol, fumes              |
| <b>Spain - Occupational Exposure Limits</b>                                       |   |
| VLA-ED (OEL TWA) [1]  | 5 mg/m <sup>3</sup> Form: mist                  |

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|  |   |
|--|---|
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |   |
| VLA-EC (OEL STEL)  | 10 mg/m <sup>3</sup> Form: mist                 |
| <b>Sweden - Occupational Exposure Limits</b>   |   |
| NGV (OEL TWA)  | 1 mg/m <sup>3</sup> Form: mist and fume         |
| KGV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: mist and fume         |
| <b>Iceland - Occupational Exposure Limits</b>  |   |
| OEL TWA  | 1 mg/m <sup>3</sup>                             |
| <b>Norway - Occupational Exposure Limits</b>   |   |
| Grenseverdi (OEL TWA) [1]  | 1 mg/m <sup>3</sup> Form: mineral oil particles |
| Grenseverdi (OEL TWA) [2]  | 50 mg/m <sup>3</sup> Form: vapor                |
| <b>Switzerland - Occupational Exposure Limits</b>  |   |
| MAK (OEL TWA) [1]  | 5 mg/m <sup>3</sup> Form: Inhalable fraction    |
| <b>Toluene (108-88-3)</b>  |   |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b>                                |   |
| Local name   | Toluene   |
| IOEL TWA   | 192 mg/m <sup>3</sup>                           |
| IOEL TWA [ppm]   | 50 ppm  |
| IOEL STEL  | 384 mg/m <sup>3</sup>                           |
| IOEL STEL [ppm]  | 100 ppm   |
| Remark   | Skin  |
| Regulatory reference   | COMMISSION DIRECTIVE 2006/15/EC                 |
| <b>Austria - Occupational Exposure Limits</b>  |   |
| MAK (OEL TWA)  | 190 mg/m <sup>3</sup>                           |
| MAK (OEL STEL)   | 380 mg/m <sup>3</sup>                           |
| <b>Denmark - Occupational Exposure Limits</b>  |   |
| OEL TWA [1]  | 94 mg/m <sup>3</sup>                            |
| <b>Finland - Occupational Exposure Limits</b>  |   |
| HTP (OEL TWA) [1]  | 81 mg/m <sup>3</sup>                            |
| HTP (OEL STEL)   | 380 mg/m <sup>3</sup>                           |
| <b>France - Occupational Exposure Limits</b>   |   |
| VME (OEL TWA)  | 76,8 mg/m <sup>3</sup>                          |
| VLE (OEL C/STEL)   | 384 mg/m <sup>3</sup>                           |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b>                                 |   |
| AGW (OEL TWA) [1]  | 190 mg/m <sup>3</sup>                           |
| <b>Netherlands - Occupational Exposure Limits</b>  |   |
| Local name   | Tolueen   |
| TGG-8u (OEL TWA)   | 150 mg/m <sup>3</sup>                           |
| TGG-8u (OEL TWA) [ppm]   | 39 ppm  |
| TGG-15min (OEL STEL)   | 384 mg/m <sup>3</sup>                           |
| TGG-15min (OEL STEL) [ppm]   | 100 ppm   |

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|  |  |
|--|--|
| Toluene (108-88-3)                                 |  |
| Regulatory reference                               | Arbeidsomstandighedenregeling 2024                     |
| Sweden - Occupational Exposure Limits              |  |
| NGV (OEL TWA)                                      | 192 mg/m³  |
| KGV (OEL STEL)                                     | 384 mg/m³  |
| United Kingdom - Occupational Exposure Limits      |  |
| WEL TWA (OEL TWA) [1]                              | 191 mg/m³  |
| WEL STEL (OEL STEL)                                | 384 mg/m³  |
| Norway - Occupational Exposure Limits              |  |
| Grenseverdi (OEL TWA) [1]                          | 94 mg/m³   |
| Switzerland - Occupational Exposure Limits         |  |
| MAK (OEL TWA) [1]                                  | 190 mg/m³  |
| KZGW (OEL STEL)                                    | 760 mg/m³  |
| naphthalene (91-20-3)                              |  |
| EU - Indicative Occupational Exposure Limit (IOEL) |  |
| Local name   | Naphthalene  |
| IOEL TWA   | 50 mg/m³   |
| IOEL TWA [ppm]                                     | 10 ppm   |
| IOEL STEL  | 15 mg/m³   |
| Remark   | (Year of adoption 2010)                                |
| Regulatory reference                               | COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations |
| Austria - Occupational Exposure Limits             |  |
| MAK (OEL TWA)                                      | 10 mg/m³   |
| MAK (OEL TWA) [ppm]                                | 50 ppm   |
| Belgium - Occupational Exposure Limits             |  |
| OEL TWA  | 53 mg/m³   |
| OEL TWA  | 10 ppm   |
| OEL STEL   | 80 mg/m³   |
| OEL STEL   | 15 ppm   |
| Denmark - Occupational Exposure Limits             |  |
| OEL TWA [1]  | 50 mg/m³   |
| OEL TWA [2]  | 10 ppm   |
| OEL STEL   | 100 mg/m³  |
| OEL STEL   | 20 ppm   |
| Finland - Occupational Exposure Limits             |  |
| HTP (OEL TWA) [1]                                  | 5 mg/m³  |
| HTP (OEL TWA) [2]                                  | 1 ppm  |
| HTP (OEL STEL)                                     | 10 mg/m³   |
| HTP (OEL STEL) [ppm]                               | 2 ppm  |

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|   |                                    |
|---|------------------------------------|
| naphthalene (91-20-3)                             |                                    |
| France - Occupational Exposure Limits             |                                    |
| VME (OEL TWA)                                     | 50 mg/m³                           |
| VME (OEL TWA) [ppm]                               | 10 ppm                             |
| Germany - Occupational Exposure Limits (TRGS 900) |                                    |
| AGW (OEL TWA) [1]                                 | 2 mg/m³                            |
| AGW (OEL TWA) [2]                                 | 0,4 ppm                            |
| Hungary - Occupational Exposure Limits            |                                    |
| AK (OEL TWA)                                      | 50 mg/m³                           |
| Ireland - Occupational Exposure Limits            |                                    |
| OEL TWA [1]                                       | 50 mg/m³                           |
| OEL TWA [2]                                       | 10 ppm                             |
| Italy - Occupational Exposure Limits              |                                    |
| OEL TWA   | 50 mg/m³                           |
| OEL TWA   | 10 ppm                             |
| Latvia - Occupational Exposure Limits             |                                    |
| OEL TWA   | 50 mg/m³                           |
| OEL TWA   | 10 ppm                             |
| Netherlands - Occupational Exposure Limits        |                                    |
| Local name  | Naftaleen                          |
| TGG-8u (OEL TWA)                                  | 50 mg/m³                           |
| TGG-8u (OEL TWA) [ppm]                            | 10 ppm                             |
| TGG-15min (OEL STEL)                              | 80 mg/m³                           |
| TGG-15min (OEL STEL) [ppm]                        | 16 ppm                             |
| Regulatory reference                              | Arbeidsomstandighedenregeling 2024 |
| Poland - Occupational Exposure Limits             |                                    |
| NDS (OEL TWA)                                     | 20 mg/m³                           |
| NDSP (OEL C)                                      | 50 mg/m³                           |
| Romania - Occupational Exposure Limits            |                                    |
| OEL TWA   | 50 mg/m³                           |
| OEL TWA   | 9,5 ppm                            |
| Spain - Occupational Exposure Limits              |                                    |
| VLA-ED (OEL TWA) [1]                              | 53 mg/m³                           |
| VLA-ED (OEL TWA) [2]                              | 10 ppm                             |
| VLA-EC (OEL STEL)                                 | 80 mg/m³                           |
| VLA-EC (OEL STEL) [ppm]                           | 15 ppm                             |
| Sweden - Occupational Exposure Limits             |                                    |
| NGV (OEL TWA)                                     | 50 mg/m³                           |
| NGV (OEL TWA) [ppm]                               | 10 ppm                             |
| KGV (OEL STEL)                                    | 80 mg/m³                           |

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|  |                        |
|--|------------------------|
| <b>naphthalene (91-20-3)</b>                               |                        |
| KGV (OEL STEL) [ppm]                                       | 15 ppm                 |
| <b>United Kingdom - Occupational Exposure Limits</b>       |                        |
| WEL TWA (OEL TWA) [1]                                      | 53 mg/m <sup>3</sup>   |
| WEL TWA (OEL TWA) [2]                                      | 10 ppm                 |
| WEL STEL (OEL STEL)  | 80 mg/m <sup>3</sup>   |
| WEL STEL (OEL STEL) [ppm]                                  | 15 ppm                 |
| <b>Norway - Occupational Exposure Limits</b>               |                        |
| Grenseverdi (OEL TWA) [1]                                  | 50 mg/m <sup>3</sup>   |
| Grenseverdi (OEL TWA) [2]                                  | 10 ppm                 |
| <b>Switzerland - Occupational Exposure Limits</b>          |                        |
| MAK (OEL TWA) [1]  | 50 mg/m <sup>3</sup>   |
| MAK (OEL TWA) [2]  | 10 ppm                 |
| <b>USA - ACGIH - Occupational Exposure Limits</b>          |                        |
| ACGIH OEL TWA [ppm]  | 10 ppm                 |
| ACGIH OEL STEL [ppm]                                       | 15 ppm                 |
| <b>Methanol (67-56-1)</b>                                  |                        |
| <b>Netherlands - Occupational Exposure Limits</b>          |                        |
| TGG-8u (OEL TWA)   | 133 mg/m <sup>3</sup>  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>          |                        |
| ACGIH OEL TWA [ppm]  | 200 ppm 8 HRS          |
| ACGIH OEL STEL [ppm]                                       | 250 ppm 15 MIN         |
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b> |                        |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b>  |                        |
| IOEL TWA [ppm]   | 1200 ppm               |
| <b>Austria - Occupational Exposure Limits</b>              |                        |
| MAK (OEL TWA)  | 1200 mg/m <sup>3</sup> |
| <b>Belgium - Occupational Exposure Limits</b>              |                        |
| OEL TWA  | 1200 mg/m <sup>3</sup> |
| <b>Bulgaria - Occupational Exposure Limits</b>             |                        |
| OEL TWA  | 1200 mg/m <sup>3</sup> |
| <b>Croatia - Occupational Exposure Limits</b>              |                        |
| GVI (OEL TWA) [1]  | 1200 mg/m <sup>3</sup> |
| <b>Czech Republic - Occupational Exposure Limits</b>       |                        |
| PEL (OEL TWA) [ppm]  | 1200 ppm               |
| <b>Denmark - Occupational Exposure Limits</b>              |                        |
| OEL TWA [1]  | 1200 mg/m <sup>3</sup> |
| <b>Estonia - Occupational Exposure Limits</b>              |                        |
| OEL TWA  | 1200 mg/m <sup>3</sup> |

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|  |  |
|--|--|
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>                 |  |
| <b>Netherlands - Occupational Exposure Limits</b>                          |  |
| TGG-8u (OEL TWA)   | 1200 mg/m <sup>3</sup>                       |
| <b>Poland - Occupational Exposure Limits</b>                               |  |
| NDS (OEL TWA)  | 300 mg/m <sup>3</sup>                        |
| NDSch (OEL STEL)   | 900 mg/m <sup>3</sup>                        |
| <b>Switzerland - Occupational Exposure Limits</b>                          |  |
| MAK (OEL TWA) [1]  | 300 mg/m <sup>3</sup>                        |
| MAK (OEL TWA) [2]  | 50 ppm                                       |
| KZGW (OEL STEL)  | 600 mg/m <sup>3</sup>                        |
| KZGW (OEL STEL) [ppm]  | 100 ppm                                      |
| <b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b> |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b>                  |  |
| IOEL TWA   | 5 mg/m <sup>3</sup>                          |
| <b>Austria - Occupational Exposure Limits</b>                              |  |
| MAK (OEL TWA)  | 5 mg/m <sup>3</sup>                          |
| <b>Belgium - Occupational Exposure Limits</b>                              |  |
| OEL TWA  | 5 mg/m <sup>3</sup> Form: mist               |
| OEL STEL   | 10 mg/m <sup>3</sup> Form: mist              |
| <b>Bulgaria - Occupational Exposure Limits</b>                             |  |
| OEL TWA  | 5 mg/m <sup>3</sup>                          |
| <b>Croatia - Occupational Exposure Limits</b>                              |  |
| GVI (OEL TWA) [1]  | 5 mg/m <sup>3</sup>                          |
| <b>Czech Republic - Occupational Exposure Limits</b>                       |  |
| PEL (OEL TWA)  | 5 mg/m <sup>3</sup> Form: aerosol            |
| NPK-P (OEL C)  | 10 mg/m <sup>3</sup> Form: aerosol           |
| <b>Denmark - Occupational Exposure Limits</b>                              |  |
| OEL TWA [1]  | 1 mg/m <sup>3</sup> Form: mist and particles |
| <b>Estonia - Occupational Exposure Limits</b>                              |  |
| OEL TWA  | 5 mg/m <sup>3</sup>                          |
| <b>Finland - Occupational Exposure Limits</b>                              |  |
| HTP (OEL TWA) [1]  | 5 mg/m <sup>3</sup> Form: Mist               |
| <b>France - Occupational Exposure Limits</b>                               |  |
| VME (OEL TWA)  | 5 mg/m <sup>3</sup>                          |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b>                   |  |
| AGW (OEL TWA) [1]  | 5 mg/m <sup>3</sup>                          |
| <b>Greece - Occupational Exposure Limits</b>                               |  |
| OEL TWA  | 5 mg/m <sup>3</sup> Form: Mist               |
| <b>Hungary - Occupational Exposure Limits</b>                              |  |
| AK (OEL TWA)   | 5 mg/m <sup>3</sup> Form: Mist               |



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| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |   |
|---|---|
| Ireland - Occupational Exposure Limits                              |   |
| OEL TWA [1]   | Form: Inhalable fraction                        |
| OEL TWA [2]   | 5 ppm   |
| Italy - Occupational Exposure Limits                                |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| Latvia - Occupational Exposure Limits                               |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| Lithuania - Occupational Exposure Limits                            |   |
| IPRV (OEL TWA)  | 1 mg/m <sup>3</sup> Form: mist                  |
| TPRV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: mist                  |
| Netherlands - Occupational Exposure Limits                          |   |
| TGG-8u (OEL TWA)  | 5 mg/m <sup>3</sup> Form: mist                  |
| Poland - Occupational Exposure Limits                               |   |
| NDS (OEL TWA)   | 5 mg/m <sup>3</sup> Form: Inhalable fraction    |
| Portugal - Occupational Exposure Limits                             |   |
| OEL TWA   | 5 mg/m <sup>3</sup> Form: inhalable fraction    |
| OEL STEL  | 10 mg/m <sup>3</sup>                            |
| Romania - Occupational Exposure Limits                              |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| OEL STEL  | 10 mg/m <sup>3</sup>                            |
| Slovakia - Occupational Exposure Limits                             |   |
| NPHV (OEL TWA) [1]  | 1 mg/m <sup>3</sup> Form: liquid aerosol, fumes |
| NPHV (OEL TWA) [2]  | 5 ppm Form: liquid aerosol, fumes               |
| NPHV (OEL STEL)   | 3 mg/m <sup>3</sup> Form: liquid aerosol, fumes |
| NPHV (OEL STEL) [ppm]   | 15 ppm Form: liquid aerosol, fumes              |
| Slovenia - Occupational Exposure Limits                             |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                             |
| Spain - Occupational Exposure Limits                                |   |
| VLA-ED (OEL TWA) [1]  | 5 mg/m <sup>3</sup> Form: mist                  |
| VLA-EC (OEL STEL)   | 10 mg/m <sup>3</sup> Form: mist                 |
| Sweden - Occupational Exposure Limits                               |   |
| NGV (OEL TWA)   | 1 mg/m <sup>3</sup> Form: mist and fume         |
| KGV (OEL STEL)  | 3 mg/m <sup>3</sup> Form: mist and fume         |
| United Kingdom - Occupational Exposure Limits                       |   |
| WEL TWA (OEL TWA) [1]   | 5 mg/m <sup>3</sup>                             |
| Iceland - Occupational Exposure Limits                              |   |
| OEL TWA   | 1 mg/m <sup>3</sup> Form: particulates          |
| Norway - Occupational Exposure Limits                               |   |
| Grenseverdi (OEL TWA) [1]   | 1 mg/m <sup>3</sup> Form: mineral oil particles |

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| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)         |                                  |
|---|----------------------------------|
| Grenseverdi (OEL TWA) [2]   | 50 mg/m³ Form: vapor             |
| Switzerland - Occupational Exposure Limits                                  |                                  |
| MAK (OEL TWA) [1]   | 5 mg/m³ Form: Inhalable fraction |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) |                                  |
| EU - Indicative Occupational Exposure Limit (IOEL)                          |                                  |
| IOEL TWA  | 5 mg/m³                          |
| IOEL STEL   | 10 mg/m³                         |

### 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

No additional information available

### 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.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses | Droplet              | clear           | EN 166   |

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

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| Hand protection |   |                   |                |             |            |
|-----------------|---|-------------------|----------------|-------------|------------|
| Type            | Material  | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR),<br>Neoprene rubber (HNBR) | 6 (> 480 minutes) | 0.7            |             | EN ISO 374 |

### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                                  |
|---|----------------------------------|
| Physical state                                  | : Liquid                         |
| Colour  | : brown.                         |
| Odour   | : Not available                  |
| Odour threshold                                 | : Not available                  |
| Melting point                                   | : Not applicable                 |
| Freezing point                                  | : -21 °C (ASTM D7346)            |
| Boiling point                                   | : Not available                  |
| Flammability                                    | : Non flammable.                 |
| Lower explosion limit                           | : Not available                  |
| Upper explosion limit                           | : Not available                  |
| Flash point                                     | : > 213 °C (ASTM D92)            |
| Auto-ignition temperature                       | : Not available                  |
| Decomposition temperature                       | : Not available                  |
| pH  | : Not available                  |
| Viscosity, kinematic                            | : 66,6 mm²/s @ 40°C (ASTM D7042) |
| Solubility                                      | : insoluble in water.            |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                  |
| Vapour pressure                                 | : Not available                  |
| Vapour pressure at 50°C                         | : Not available                  |
| Density   | : 864 kg/m³ @ 15°C (ASTM D4052)  |
| Relative density                                | : Not available                  |
| Relative vapour density at 20°C                 | : Not available                  |
| Particle characteristics                        | : Not applicable                 |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Oxidizing agent.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

|   |  |
|---|--|
| LD50 oral (rat)                             | > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test |
| LD50 dermal (rabbit)                        | > 2000 mg/kg 402 Acute Dermal Toxicity Test          |
| LC50 inhalation (rat) (mg/l)                | > 5000 mg/l/4h                                       |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5,53 mg/l/4h 403 Acute Inhalation Toxicity Test    |

#### N-Phenyl-1-naphthylamin (90-30-2)

|                      |   |
|----------------------|---|
| LD50 oral (rat)      | 1625 mg/kg Animal: rat, Animal sex: male, 95% CL: 1201 - 2197 |
| LD50 dermal (rabbit) | > 5000 mg/kg  |

#### Hydrocarbons, C10-C13, aromatics, <1% naphthalene

|   |                             |
|---|-----------------------------|
| LD50 oral (rat)                             | > 6318 mg/kg OECD TG 401    |
| LD50 dermal (rat)                           | > 2000 mg/kg OECD TG 402    |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 4,778 mg/l/4h OECD TG 403 |

#### 1-naphtol (90-15-3)

|   |              |
|---|--------------|
| LD50 oral (rat)                             | 1870 mg/kg   |
| LD50 dermal (rabbit)                        | 880 mg/kg    |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 97 mg/l/4h |

#### diphenylamine (122-39-4)

|                      |              |
|----------------------|--------------|
| LD50 oral (rat)      | 1165 mg/kg   |
| LD50 dermal (rabbit) | > 5000 mg/kg |

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

|   |  |
|---|--|
| LD50 oral (rat)                             | > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test |
| LD50 dermal (rabbit)                        | > 5000 mg/kg 402 Acute Dermal Toxicity Test          |
| LC50 inhalation (rat) (mg/l)                | 5,53 mg/l 403 Acute Inhalation Toxicity              |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5,53 mg/l/4h 403 Acute Inhalation Toxicity Test    |

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|  |  |
|--|--|
| <b>Toluene (108-88-3)</b>  |  |
| LD50 oral (rat)  | 5580 mg/kg bodyweight OECD 401   |
| LD50 dermal (rabbit)   | 12124 mg/kg OECD 402   |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h)  | 25,7 mg/l/4h   |
| <b>naphthalene (91-20-3)</b>   |  |
| LD50 oral (rat)  | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| LC50 inhalation (rat) (mg/l)   | > 0,4 mg/l air Animal: rat, Guideline: other:EPA TSCA, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)                |
| <b>Methanol (67-56-1)</b>  |  |
| LD50 oral (rat)  | 5600 mg/kg   |
| LD50 dermal (rabbit)   | 15800 mg/kg  |
| LC50 inhalation (rat) (ppm)  | 64000 ppm/4h   |
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>                         |  |
| LD50 oral (rat)  | > 5000 mg/kg   |
| LD50 dermal (rabbit)   | > 5000 mg/kg   |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h)  | > 5 mg/l/4h  |
| <b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>         |  |
| LD50 oral (rat)  | > 5000 mg/kg 401 Acute Oral Toxicity Test  |
| LD50 dermal (rabbit)   | > 5000 mg/kg 402 Acute Dermal Toxicity Test  |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h)  | > 5,53 mg/l/4h 403 Acute Inhalation Toxicity Test  |
| <b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b> |  |
| LD50 oral (rat)  | > 5000 mg/kg   |
| LD50 dermal (rabbit)   | > 2000 mg/kg   |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h)  | > 5,53 mg/l/4h   |
| Skin corrosion/irritation  | : Not classified   |
| Serious eye damage/irritation  | : Not classified   |
| Respiratory or skin sensitisation  | : Not classified   |
| Germ cell mutagenicity   | : Not classified   |
| Carcinogenicity  | : Not classified   |
| Reproductive toxicity  | : Not classified   |
| <b>N-Phenyl-1-naphthylamin (90-30-2)</b>   |  |
| NOAEL (animal/male, F0/P)  | < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)   |
| NOAEL (animal/female, F0/P)  | < 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) |
| <b>naphthalene (91-20-3)</b>   |  |
| LOAEL (animal/female, F0/P)  | 50 mg/kg bodyweight OECD Guideline 414   |
| LOAEL (animal/female, F1)  | 450 mg/kg bodyweight OECD Guideline 414  |
| NOAEL (animal/female, F0/P)  | 120 mg/kg bodyweight OECD Guideline 414  |
| STOT-single exposure   | : Not classified   |

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|  |   |
|--|---|
| <b>1-naphtol (90-15-3)</b>   |   |
| STOT-single exposure   | May cause respiratory irritation.   |
| <b>Toluene (108-88-3)</b>  |   |
| STOT-single exposure   | May cause drowsiness or dizziness.  |
| <b>Methanol (67-56-1)</b>  |   |
| STOT-single exposure   | Causes damage to organs.  |
| STOT-repeated exposure   | : Not classified  |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>               |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408   |
| <b>N-Phenyl-1-naphthylamin (90-30-2)</b>   |   |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.  |
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>                              |   |
| NOAEL (oral, rat, 90 days)   | 300 mg/kg bodyweight OECD Guideline 408   |
| NOAEL (subchronic, oral, animal/male, 90 days)   | 300 mg/kg bodyweight  |
| <b>1-naphtol (90-15-3)</b>   |   |
| NOAEL (subchronic, oral, animal/male, 90 days)   | 130 mg/kg bodyweight  |
| <b>diphenylamine (122-39-4)</b>  |   |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.  |
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight  |
| <b>Toluene (108-88-3)</b>  |   |
| NOAEL (oral, rat, 90 days)   | 625 mg/kg bodyweight/day  |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.  |
| <b>naphthalene (91-20-3)</b>   |   |
| LOAEL (oral, rat, 90 days)   | 400 mg/kg bodyweight OECD 408   |
| LOAEC (inhalation, rat, vapour, 90 days)   | 0,011 mg/l air OECD Guideline 413   |
| NOAEL (dermal, rat/rabbit, 90 days)  | 1000 mg/kg bodyweight OECD Guideline 411  |
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>                               |   |
| NOAEL (subchronic, oral, animal/male, 90 days)   | 1000 mg/kg bodyweight   |
| <b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>               |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| <b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b>       |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight/day  |
| Aspiration hazard  | : Not classified  |
| <b>Andritz Lube Oil M68</b>  |   |
| Viscosity, kinematic   | 66,6 mm <sup>2</sup> /s @ 40°C (ASTM D7042)   |

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|  |                                 |
|--|---------------------------------|
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>               |                                 |
| Viscosity, kinematic   | ≈ 98 mm <sup>2</sup> /s @ 40°C  |
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>                              |                                 |
| Viscosity, kinematic   | 4,25 mm <sup>2</sup> /s         |
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |                                 |
| Viscosity, kinematic   | 2978 mm <sup>2</sup> /s 40°C    |
| <b>Toluene (108-88-3)</b>  |                                 |
| Viscosity, kinematic   | 0,644 mm <sup>2</sup> /s @20°C  |
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>                               |                                 |
| Viscosity, kinematic   | 1,77 mm <sup>2</sup> /s         |
| <b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>               |                                 |
| Viscosity, kinematic   | < 20,5 mm <sup>2</sup> /s @40°C |
| <b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b>       |                                 |
| Viscosity, kinematic   | 47 mm <sup>2</sup> /s           |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : Harmful 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) | : Harmful to aquatic life with long lasting effects. |

|  |  |
|--|--|
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> |  |
| LC50 - Fish [1]  | > 100 mg/l Pimephales promelas   |
| EC50 - Crustacea [1]   | > 10000 mg/l Daphnia magna   |
| EC50 72h - Algae [1]   | > 100 mg/l Pseudokirchneriella subcapitata   |
| NOEC chronic fish  | 1000 mg/l Oncorhynchus mykiss (14d)  |
| NOEC chronic crustacea   | 10 mg/l Daphnia magna (21d)  |
| NOEC chronic algae   | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)   |
| <b>N-Phenyl-1-naphthylamin (90-30-2)</b>                                   |  |
| LC50 - Fish [1]  | 0,44 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1]   | 0,3 mg/l Daphnia magna   |
| EC50 96h - Algae [1]   | 0,93 mg/l Pseudokirchneriella subcapitata  |
| NOEC chronic crustacea   | 0,032 mg/l Daphnia magna (21d)   |
| NOEC chronic algae   | 0,032 mg/l Daphnia magna (21d)   |
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>                |  |
| LC50 - Fish [1]  | 3,6 mg/l Oncorhynchus mykiss (OECD 203)  |

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| Hydrocarbons, C10-C13, aromatics, <1% naphthalene                                 |  |
|---|--|
| EC50 - Crustacea [1]  | 1,1 mg/l OECD 202  |
| ErC50 algae   | 3,8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)   |
| NOEC chronic fish   | 0,103 mg/l 28 d (PETROTOX QSAR)                            |
| NOEC chronic crustacea  | 0,179 mg/l 21 d (Daphnia magna, OECD 211)                  |
| NOEC chronic algae  | 0,179 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201) |
| 1-naphthol (90-15-3)  |  |
| LC50 - Fish [1]   | 0,33 mg/l M. cavasius                                      |
| EC50 - Crustacea [1]  | 2,51 mg/l Daphnia magna                                    |
| EC50 72h - Algae [1]  | > 2,18 mg/l Pseudokirchneriella subcapitata                |
| NOEC chronic crustacea  | 0,25 mg/l Daphnia magna (21d)                              |
| NOEC chronic algae  | > 2,18 mg/l Pseudokirchneriella subcapitata (72h)          |
| diphenylamine (122-39-4)  |  |
| LC50 - Fish [1]   | 3,79 mg/l Pimephales promelas                              |
| EC50 - Crustacea [1]  | 2 mg/l Daphnia magna (OECD 202)                            |
| EC50 72h - Algae [1]  | 0,43 mg/l Pseudokirchnerella subcapitata                   |
| NOEC chronic fish   | 0,625 mg/l Oryzias latipes (21d)                           |
| NOEC chronic crustacea  | 0,125 mg/l Daphnia magna (OECD Test Guideline 202) (21d)   |
| NOEC chronic algae  | 0,027 mg/l Pseudokirchnerella subcapitata (72h)            |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |  |
| LC50 - Fish [1]   | > 100 mg/l Pimephales promelas                             |
| EC50 - Crustacea [1]  | > 10000 mg/l Daphnia magna                                 |
| NOEC chronic fish   | 1000 mg/l Oncorhynchus mykiss (14d)                        |
| NOEC chronic crustacea  | 10 mg/l Daphnia magna (21d)                                |
| NOEC chronic algae  | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)           |
| Toluene (108-88-3)  |  |
| LC50 - Fish [1]   | 5,5 mg/l Oncorhynchus kisutch                              |
| EC50 - Crustacea [1]  | 3,78 mg/l Ceriodaphnia Dubia                               |
| EC50 72h - Algae [1]  | 134 mg/l Pseudokirchneriella subcapitata                   |
| NOEC chronic fish   | 1,39 mg/l 40d  |
| NOEC chronic crustacea  | 0,74 mg/l Ceriodaphnia dubia (7d)                          |
| naphthalene (91-20-3)   |  |
| LC50 - Fish [1]   | 0,51 mg/l Oncorhynchus mykiss                              |
| EC50 - Crustacea [1]  | 3,4 mg/l Daphnia magna                                     |
| NOEC (chronic)  | 0,59 mg/l (Daphnia pulex; 125 d)                           |
| Methanol (67-56-1)  |  |
| LC50 - Fish [1]   | 100 mg/l Fathead minnow                                    |
| EC50 - Crustacea [1]  | 22200 – 23400 mg/l Daphnia obtusa                          |
| EC50 96h - Algae [1]  | 16,912 mg/l Green algae                                    |



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|  |  |
|--|--|
| <b>Methanol (67-56-1)</b>  |  |
| NOEC chronic algae   | 9,96 mg/l Green algae (96h)                      |
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>                               |  |
| LC50 - Fish [1]  | > 1000 mg/l Oncorhynchus mykiss                  |
| EC50 - Crustacea [1]   | > 1000 mg/l Daphnia magna                        |
| EC50 72h - Algae [1]   | > 1000 mg/l Raphidocelis subcapitata             |
| NOEC chronic algae   | 100 mg/l Raphidocelis subcapitata (72h)          |
| <b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>               |  |
| LC50 - Fish [1]  | > 100 mg/l Pimephales promelas                   |
| EC50 - Crustacea [1]   | > 10000 mg/l Daphnia magna                       |
| EC50 72h - Algae [1]   | > 100 mg/l Pseudokirchneriella subcapitata       |
| NOEC chronic fish  | 1000 mg/l Oncorhynchus mykiss (14d)              |
| NOEC chronic crustacea   | 10 mg/l Daphnia magna (21d)                      |
| NOEC chronic algae   | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) |
| <b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b>       |  |
| LC50 - Fish [1]  | > 100 mg/l Pimephales promelas                   |
| EC50 - Crustacea [1]   | > 10000 Daphnia magna                            |
| NOEC chronic fish  | 1000 mg/l Oncorhynchus mykiss (14d)              |
| NOEC chronic crustacea   | 10 mg/l Daphnia magna (21d)                      |
| NOEC chronic algae   | 100 mg/l Pseudokirchneriella subcapitata (72h)   |
| <b>12.2. Persistence and degradability</b>   |  |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>               |  |
| Persistence and degradability  | Not readily biodegradable.                       |
| Biodegradation   | 31 % OECD TG 301 F (28d)                         |
| <b>N-Phenyl-1-naphthylamin (90-30-2)</b>   |  |
| Persistence and degradability  | Not readily biodegradable.                       |
| Biodegradation   | 0 % 28d  |
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>                              |  |
| Persistence and degradability  | Readily biodegradable.                           |
| Biodegradation   | 70 % 28d OECD 301F                               |
| <b>1-naphtol (90-15-3)</b>   |  |
| Biodegradation   | 77,8 % OECD 301B (29d)                           |
| <b>diphenylamine (122-39-4)</b>  |  |
| Biodegradation   | 26 % OECD TG 301 D (28d)                         |
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |  |
| Persistence and degradability  | Not readily biodegradable.                       |
| Biodegradation   | 31 % 28 d OECD 301F                              |

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|  |                                      |
|--|--------------------------------------|
| <b>Toluene (108-88-3)</b>  |                                      |
| Biodegradation   | 80 %                                 |
| <b>naphthalene (91-20-3)</b>   |                                      |
| Persistence and degradability  | Not readily biodegradable.           |
| Biodegradation   | 2 %                                  |
| <b>Methanol (67-56-1)</b>  |                                      |
| Biodegradation   | 99 % (28d)                           |
| <b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>                         |                                      |
| Biodegradation   | 31,3 % 28 d Richtlijn test OECD 301F |
| <b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>         |                                      |
| Biodegradation   | 31 % OECD TG 301 F (28d)             |
| <b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b> |                                      |
| Biodegradation   | 31 %                                 |
| <b>12.3. Bioaccumulative potential</b>   |                                      |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>         |                                      |
| Partition coefficient n-octanol/water (Log Pow)                                    | 3,9 – 6                              |
| <b>N-Phenyl-1-naphthylamin (90-30-2)</b>   |                                      |
| Bioconcentration factor (BCF REACH)  | 1424                                 |
| Partition coefficient n-octanol/water (Log Pow)                                    | 4,28                                 |
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>                        |                                      |
| Bioconcentration factor (BCF REACH)  | 5780                                 |
| Partition coefficient n-octanol/water (Log Pow)                                    | 6,5                                  |
| <b>1-naphtol (90-15-3)</b>   |                                      |
| Partition coefficient n-octanol/water (Log Pow)                                    | 2,85                                 |
| <b>diphenylamine (122-39-4)</b>  |                                      |
| Bioconcentration factor (BCF REACH)  | 151,36                               |
| Partition coefficient n-octanol/water (Log Kow)                                    | 3,4                                  |
| <b>Toluene (108-88-3)</b>  |                                      |
| Bioconcentration factor (BCF REACH)  | 90                                   |
| Partition coefficient n-octanol/water (Log Kow)                                    | 2,73 @20°C                           |
| <b>naphthalene (91-20-3)</b>   |                                      |
| Bioconcentration factor (BCF REACH)  | < 100                                |
| Partition coefficient n-octanol/water (Log Pow)                                    | 3,01                                 |
| <b>Methanol (67-56-1)</b>  |                                      |
| Bioconcentration factor (BCF REACH)  | < 10                                 |
| Partition coefficient n-octanol/water (Log Pow)                                    | -0,77                                |

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### Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

|                                     |      |
|-------------------------------------|------|
| Bioconcentration factor (BCF REACH) | 2500 |
|-------------------------------------|------|

### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | > 6 |
|---|-----|

### 12.4. Mobility in soil

### Hydrocarbons, C10-C13, aromatics, <1% naphthalene

|  |             |
|--|-------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3,11 @ 20°C |
|--|-------------|

### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

|                |                        |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

### naphthalene (91-20-3)

|  |     |
|--|-----|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2,6 |
|--|-----|

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. 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 | : Recycle product or dispose safely. Recycle the material as far as possible. Recycle or dispose of in compliance with current legislation.   |
| European List of Waste (LoW, EC 2000/532)  | : 13 01 10* - mineral based non-chlorinated hydraulic oils  |
| HP Code                                    | : HP3 - "Flammable:"<br>– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;<br>– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;<br>– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;<br>– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;<br>– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;<br>– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.<br>HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. |

## SECTION 14: Transport information

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

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| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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

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

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Diphenylamine (122-39-4)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name    | CN designation | CAS-No.  | CN code    | Category   | Threshold | Annex   |
|---------|----------------|----------|------------|------------|-----------|---------|
| Toluene |                | 108-88-3 | 2902 30 00 | Category 3 |           | Annex I |

### 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 15                 | Diseases caused by aromatic amines, their salts and derivatives, especially hydroxylated, halogenated, nitrated, nitrosated and sulphonated   |
| RG 15 BIS             | Allergic mechanism disorders caused by aromatic amines, their salts, their derivatives, especially hydroxylated, halogenated, nitrated, nitrosated, sulphonated and products containing them in the free state  |
| 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 dimethylacetamide; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

#### Germany

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510)

: LGK 12 - Non-combustible 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 6.2, LGK 7.

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.3, LGK 5.1C.

Joint storage permitted for

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV)

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

#### Netherlands

ABM category

: Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioacumulative potential/ toxicity or persistence)

Ministry's list of carcinogens

: Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), hydrotreated light paraffinic are listed

Ministry's list of mutagens

: Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), hydrotreated light paraffinic are listed

NON-exhaustive list of reproductive toxins -

: None of the components are listed

Breastfeeding

NON-exhaustive list of reproductive toxins - Fertility

: None of the components are listed

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NON-exhaustive list of reproductive toxins - Evolution : Toluene is listed

Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes |  |          |          |
|-----------------------|--|----------|----------|
| Section               | Changed item                           | Change   | Comments |
|                       | Revision date                          | Modified |          |
|                       | Supersedes                             | Modified |          |
| 1.2                   | Function or use category               | Modified |          |
| 3                     | Composition/information on ingredients | Modified |          |
| 5.2                   | Explosion hazard                       | Added    |          |
| 5.2                   | Fire hazard                            | Added    |          |
| 5.2                   | Reactivity in case of fire             | Added    |          |
| 5.3                   | Precautionary measures fire            | Modified |          |
| 5.3                   | Firefighting instructions              | Modified |          |
| 6.1                   | Emergency procedures                   | Modified |          |
| 6.1                   | General measures                       | Modified |          |
| 6.3                   | Methods for cleaning up                | Modified |          |
| 6.3                   | For containment                        | Modified |          |
| 7.1                   | Hygiene measures                       | Modified |          |
| 7.1                   | Precautions for safe handling          | Modified |          |
| 7.1                   | Additional hazards when processed      | Added    |          |
| 7.2                   | Storage conditions                     | Modified |          |
| 7.2                   | Storage area                           | Modified |          |
| 7.2                   | Special rules on packaging             | Modified |          |
| 7.2                   | Information on mixed storage           | Added    |          |
| 10.5                  | Incompatible materials                 | Added    |          |
| 13.1                  | Sewage disposal recommendations        | Added    |          |
| 13.1                  | Waste disposal recommendations         | Added    |          |

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| 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  |

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### Abbreviations and acronyms:

|         |  |
|---------|--|
| BOD     | Biochemical oxygen demand (BOD)  |
| COD     | Chemical oxygen demand (COD)   |
| DMEL    | Derived Minimal Effect level   |
| DNEL    | Derived-No Effect Level  |
| EC-No.  | European Community number  |
| EC50    | Median effective concentration   |
| EN      | European Standard  |
| IARC    | International Agency for Research on Cancer                                  |
| IATA    | International Air Transport Association                                      |
| IMDG    | International Maritime Dangerous Goods                                       |
| LC50    | Median lethal concentration  |
| LD50    | Median lethal dose   |
| LOAEL   | Lowest Observed Adverse Effect Level   |
| 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  |
| 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   |
| VOC     | Volatile Organic Compounds   |
| CAS-No. | Chemical Abstract Service number   |
| N.O.S.  | Not Otherwise Specified  |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disrupting properties  |

### Full text of H- and EUH-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3                               |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), 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                          |
| Asp. Tox. 1                         | Aspiration hazard, Category 1  |
| Carc. 2                             | Carcinogenicity, Category 2  |
| EUH066                              | Repeated exposure may cause skin dryness or cracking.                                      |
| EUH208                              | Contains N-Phenyl-1-naphthylamin(90-30-2). May produce an allergic reaction.               |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Flam. Liq. 2                        | Flammable liquids, Category 2  |
| H225                                | Highly flammable liquid and vapour.  |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H304                                | May be fatal if swallowed and enters airways.  |
| H311                                | Toxic in contact with skin.  |
| H312                                | Harmful in contact with skin.  |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H331                                | Toxic if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H336                                | May cause drowsiness or dizziness.   |
| H351                                | Suspected of causing cancer.   |
| H361d                               | Suspected of damaging the unborn child.  |
| H370                                | Causes damage to organs.   |
| 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.   |
| H412                                | Harmful to aquatic life with long lasting effects.   |
| Repr. 2                             | Reproductive toxicity, Category 2  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2                             |
| STOT SE 1                           | Specific target organ toxicity – single exposure, Category 1                               |
| STOT SE 2                           | Specific target organ toxicity – Single exposure, Category 2                               |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.