Safety Data Sheet

# 11 Mix SVOC in dichloromethane

Version：V2.0.0.1
Report No.：BWQ9221-2016-MSDS-EP
Creation Date：2026/01/08
Revision Date：-

*Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)

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

### 1.1 Product identifier

| | |
|---|---|
| Product Name | 11 Mix SVOC in dichloromethane |
| Cat No. | BWQ9221-2016 |
| CAS No. | Not applicable |
| EC No. | Not applicable |
| Molecular Formula | Not applicable |
| REACH Registration Number | - |
| UFI | No information available |

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

| | |
|---|---|
| Relevant identified uses | Please consult manufacturer. |
| Uses advised against | Please consult manufacturer. |

### 1.3 Details of the supplier of the Safety Data Sheet

| | |
|---|---|
| Name of the company | Weiyel Inc |
| Address of the company | Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China |
| Post code | 465350 |
| Telephone number | 010-58103678 |
| Fax number | 010-84840368 |
| E-mail address | info@weiyel.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| Emergency telephone number | 010-58103678 |
| Opening hours | 24h |

## 2 Hazards identification

### 2.1 CLP classification according to Regulation ( EC ) No. 1272/2008 with amendment 2023/707

| | |
|---|---|
| Acute Toxicity - Oral | Category 4 |
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1B |
| Specific target organ toxicity - repeated exposure | Category 2 |
| Hazardous to the aquatic environment - short-term | Category 1 |

| | |
|---|---|
| (acute) hazard | |
| Hazardous to the aquatic environment - long-term (chronic) hazard | Category 3 |

## 2.2 Label elements

| | |
|---|---|
| Hazard pictograms |  |
| Signal word | Danger |

## Hazard statements

| | |
|---|---|
| H302 | Harmful if swallowed |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |
| EUH208 | Contains sensitising substance. May produce an allergic reaction |

## Precautionary statements

- Prevention

| | |
|---|---|
| P201 | Obtain special instructionsbefore use. |
| P202 | Do not handle until allsafety precautions havebeen read and understood. |
| P260 | Do not breathe gas/mist/vapour/spray. |
| P264 | Wash hands and other parts of the body (if related) thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

- Response

| | |
|---|---|
| P314 | Get medical advice/ attention if you feel unwell. |
| P330 | Rinse mouth. |
| P391 | Collect spillage. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |

- Storage

| | |
|---|---|
| P405 | Store locked up. |

- Disposal

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/ international regulations. |

## 2.3 Other hazards

- Results of PBT and vPvB assessment

| Component | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|---|---|

| | |
|---|---|
| **Dichloromethane** | Not PBT/vPvB |
| **Aniline** | Not PBT/vPvB |
| **2-chlorophenol** | Not PBT/vPvB |
| **Nitrobenzene** | Insufficient information, temporarily unable to evaluate |
| **Naphthalene** | Not PBT/vPvB |
| **Benz[a]anthracene** | Insufficient information, temporarily unable to evaluate |
| **Chrysene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[e]acephenanthrylene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[k]fluoranthene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[def]chrysene** | Insufficient information, temporarily unable to evaluate |
| **Indeno[1,2,3-cd]pyrene** | Insufficient information, temporarily unable to evaluate |
| **Dibenz[a,h]anthracene** | Insufficient information, temporarily unable to evaluate |

◆ Results of endocrine disrupting properties assessment

| Component | Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605] |
|---|---|
| **Dichloromethane** | Insufficient information, temporarily unable to evaluate |
| **Aniline** | Insufficient information, temporarily unable to evaluate |
| **2-chlorophenol** | Insufficient information, temporarily unable to evaluate |
| **Nitrobenzene** | Insufficient information, temporarily unable to evaluate |
| **Naphthalene** | Insufficient information, temporarily unable to evaluate |
| **Benz[a]anthracene** | Insufficient information, temporarily unable to evaluate |
| **Chrysene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[e]acephenanthrylene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[k]fluoranthene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[def]chrysene** | Insufficient information, temporarily unable to evaluate |
| **Indeno[1,2,3-cd]pyrene** | Insufficient information, temporarily unable to evaluate |
| **Dibenz[a,h]anthracene** | Insufficient information, temporarily unable to evaluate |

◆ Other

| | |
|---|---|
| | Not applicable. |

## 3 Composition/information on ingredients

### 3.1 Substance

| | |
|---|---|
| | Not applicable |

### 3.2 Mixture

| Component | Weight % content(or range) | Classification according to Regulation ( EC ) No. 1272/2008 with amendment 2023/707 [CLP] | Specific Conc. Limits, M-factors |
|---|---|---|---|
| **Dichloromethane** | 97.8 | Carcinogenicity, Category 2, H351 | - |

| | | | |
|---|---|---|---|
| CAS : 75-09-2<br>EC : 200-838-9<br>Index No. : 602-004-00-3 | | | |
| **Aniline**<br>CAS : 62-53-3<br>EC : 200-539-3<br>Index No. : 612-008-00-7 | 0.20 | Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Sensitization - skin, Category 1, H317; Serious eye damage/irritation, Category 1, H318; Acute Toxicity - Inhalation, Category 3, H331; Germ cell mutagenicity, Category 2, H341; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400 | H372:C ≥ 1%\|H373:0.2% ≤ C < 1% |
| **2-chlorophenol**<br>CAS : 95-57-8<br>EC : 202-433-2<br>Index No. : 604-008-00-0 | 0.20 | Acute Toxicity - Oral, Category 4, H302; Acute Toxicity - Dermal, Category 4, H312; Acute Toxicity - Inhalation, Category 4, H332; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 2, H411 | - |
| **Nitrobenzene**<br>CAS : 98-95-3<br>EC : 202-716-0<br>Index No. : 609-003-00-7 | 0.20 | Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Acute Toxicity - Inhalation, Category 3, H331; Carcinogenicity, Category 2, H351; Reproductive toxicity, Category 1B, H360; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 3, H412 | - |
| **Naphthalene**<br>CAS : 91-20-3<br>EC : 202-049-5<br>Index No. : 601-052-00-2 | 0.20 | Acute Toxicity - Oral, Category 4, H302; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | - |
| **Benz[a]anthracene**<br>CAS : 56-55-3<br>EC : 200-280-6<br>Index No. : 601-033-00-9 | 0.20 | Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | M=100 |
| **Chrysene**<br>CAS : 218-01-9<br>EC : 205-923-4<br>Index No. : 601-048-00-0 | 0.20 | Germ cell mutagenicity, Category 2, H341; Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | - |
| **Benzo[e]acephenanthrylene**<br>CAS : 205-99-2<br>EC : 205-911-9<br>Index No. : 601-034-00-4 | 0.20 | Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | - |
| **Benzo[k]fluoranthene**<br>CAS : 207-08-9<br>EC : 205-916-6<br>Index No. : 601-036-00-5 | 0.20 | Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | - |

| | | | |
|---|---|---|---|
| **Benzo[def]chrysene**<br>CAS : 50-32-8<br>EC : 200-028-5<br>Index No. : 601-032-00-3 | 0.20 | Sensitization - skin, Category 1, H317; Germ cell mutagenicity, Category 1B, H340; Carcinogenicity, Category 1B, H350; Reproductive toxicity, Category 1B, H360; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | H350B:C ≥ 0.01% |
| **Indeno[1,2,3-cd]pyrene**<br>CAS : 193-39-5<br>EC : 205-893-2<br>Index No. : - | 0.20 | Carcinogenicity, Category 2, H351 | - |
| **Dibenz[a,h]anthracene**<br>CAS : 53-70-3<br>EC : 200-181-8<br>Index No. : 601-041-00-2 | 0.20 | Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410 | H350B:C ≥ 0.01%;M=100 |

## 4 First-aid measures

### 4.1 Description of first aid measures

| | |
|---|---|
| **General advice** | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance. |
| **Eye contact** | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| **Skin contact** | Remove contaminated clothes. Rinse and then wash skin with water and soap. |
| **Ingestion** | Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest. |
| **Inhalation** | Fresh air, rest. Artificial respiration may be needed. Refer for medical attention. |
| **Protecting of first-aiders** | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. |

### 4.2 Most important symptoms/effects, acute and delayed

| | |
|---|---|
| 1 | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. |

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

| | |
|---|---|
| 1 | Treat symptomatically. |
| 2 | Symptoms may be delayed. |

## 5 Fire-fighting measures

### 5.1 Extinguishing media

| | |
|---|---|
| **Suitable extinguishing media** | Small fire: dry chemical, $CO_2$ , water spray or regular foam; Large fire: water spray, fog or regular foam; Fire involving tanks: cool containers with flooding quantities of water until well after fire is out. |
| **Unsuitable extinguishing media** | Large fire: Do not scatter spilled material with high-pressure water streams. |

### 5.2 Specific hazards arising from the substance or mixture

| | |
|---|---|
| 1 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 2 | May expansion or decompose explosively when heated or involved in fire. |

### 5.3 Advice for firefighters

| | |
|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus ( MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover. |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |

# 6 Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| 1 | Use personal protective equipment,do not breathe gas/mist/vapour/spray. |
| 2 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 3 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |

## 6.2 Environmental precautions

| | |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided. |

## 6.3 Methods and materials for containment and cleaning up

| | |
|---|---|
| 1 | Cut off the source of the leak as much as possible. |
| 2 | Keep leaks in a ventilated place. |
| 3 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 4 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |
| 5 | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container. |

## 6.4 Reference to other sections

| | |
|---|---|
| 1 | Personal Protective Equipment advice is contained in Section 8 of the SDS. |
| 2 | Disposal considerations advice is contained in Section 13 of the SDS. |

# 7 Handling and storage

## 7.1 Precautions for safe handling

### ◆ Protective measures

| | |
|---|---|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |

### ◆ Measures to prevent fire

| | |
|---|---|
| 1 | Keep away from heat/sparks/open flames/ hot surfaces. |

### ◆ Measures to prevent aerosol and dust generation

| | |
|---|---|
| 1 | Not applicable. |

### ◆ Advice on general occupational hygiene

| | |
|---|---|
| 1 | Wash hands and face after using the substances. |
| 2 | Replace the contaminated clothing immediately. |

## 7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |

| | |
|---|---|
| 3 | Keep away from heat/sparks/open flames/hot surfaces. |
| 4 | Store away from incompatible materials and foodstuff containers. |

### 7.3 Specific end use(s)

| | |
|---|---|
| 1 | In addition to use mentioned in the Section 1.2, unforeseen other specific end uses. |

## 8 Exposure controls/personal protection

### 8.1 Control parameters

◆Occupational exposure limit values

| Component | Country/Region | Limit value - Eight hours | | Limit value - Short term | |
|---|---|---|---|---|---|
| | | ppm | mg/m³ | ppm | mg/m³ |
| **Dichloromethane** | Japan - JSOH(2024–2025) | 50 | 173 | - | - |
| | Permissible exposure standards for workers in the workplace | 50 | 174 | 75 | 217.5 |
| | European Union | 100 | 353 | 200 | 706 |
| | France | 50 | 178 | 100 | 356 |
| | Germany (AGS) | 50 | 180 | 100 | 360 |
| | Germany (DFG) | 50 | 180 | 100 | 360 |
| **Aniline** | Japan - JSOH(2024–2025) | 1 | 3.8 | - | - |
| | Permissible exposure standards for workers in the workplace | 2 | 7.6 | 4 | 15.2 |
| | European Union | 2 | 7.74 | 5 | 19.35 |
| | France | 2 | 7.74 | 5 | 19.35 |
| | Germany (AGS) | 2 | 7.7 | 4 | 15.4 |
| | Germany (DFG) | 2 | 7.7 | 4 | 15.4 |
| **2-chlorophenol** | Denmark | - | 0.5 | - | 1 |
| | Romania | - | - | - | 10 |
| **Nitrobenzene** | Japan - JSOH(2024–2025) | 1 | 5 | - | - |
| | Permissible exposure standards for workers in the workplace | 1 | 5 | 2 | 10 |
| | European Union | 0.2 | 1 | - | - |
| | France | 0.2 | 1 | - | - |
| | Germany (AGS) | 0.1 | 0.51 | 0.4 | 2.04 |

| | | | | | |
|---|---|---|---|---|---|
| | Germany (DFG) | 0.1 | 0.51 | 0.4 | 2.04 |
| **Naphthalene** | Permissible exposure standards for workers in the workplace | 10 | 52 | 15 | 78 |
| | France | 10 | 50 | - | - |
| | Germany (AGS) | 0.4 | 2 | 1.6 | 8 |
| | Italy | 10 | 50 | - | - |
| | Austria | 10 | 50 | - | - |
| | Belgium | 10 | 53 | 15 | 80 |
| **Chrysene** | USA - OSHA | - | 0.2 | - | - |
| **Benzo[def]chrysene** | Germany (AGS) | - | 0.0007 | - | 0.0056 |
| | Austria | - | 0.002 | - | 0.008 |
| | Finland | - | 0.01 | - | - |
| | Hungary | - | 0.002 | - | - |
| | Latvia | - | 0.00015 | - | - |
| | Netherlands | - | 0.00055 | - | - |
| **Dibenz[a,h]anthracene** | Poland | - | 0.004 | - | - |

◆ Biological limit values

| Component | Standard | Biological monitoring index | Biological limits value | Sampling time | Remark |
|---|---|---|---|---|---|
| **Dichloromethane** | SCOEL(EU) | COHb/blood | 0.04 | Not strictly regulated | |
| | | methylene chloride/urine | 0.3mg/L | Not strictly regulated | |
| | | methylene chloride/blood | 1.0mg/L | Not strictly regulated | |
| | | Dichloromethane(Urine) | 0.3mg/L | End of shift | |
| **Aniline** | SCOEL(EU) | p-aminophenol/urine | 30 mg/L | 0-2 h after exposure/shift | |
| | | Aniline, with hydrolysis(Urine) | 0.5mg/L | End of shift | |
| **Nitrobenzene** | USA -ACGIH | Methemoglobin( Hemoglobin in blood) | 5% | During or end of shift | |
| **Naphthalene** | USA -ACGIH | 1-Hydroxypyrene, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine) | Nonquantitative | End of shift at end of work week | |
| **Benz[a]anthracene** | USA -ACGIH | 1-Hydroxypyrene, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |

| | | | | | |
|---|---|---|---|---|---|
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |
| **Chrysene** | USA -ACGIH | 1-Hydroxypyren e, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |
| **Benzo[e]acephenanthryle ne** | USA -ACGIH | 1-Hydroxypyren e, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |
| **Benzo[k]fluoranthene** | USA -ACGIH | 1-Hydroxypyren e, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |
| **Benzo[def]chrysene** | USA -ACGIH | 1-Hydroxypyren e, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |
| **Indeno[1,2,3-cd]pyrene** | USA -ACGIH | 1-Hydroxypyren e, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |
| **Dibenz[a,h]anthracene** | USA -ACGIH | 1-Hydroxypyren e, with hydrolysis (1-HP)(Urine) | 2.5μg/L | End of shift at end of work week | |
| | | 3-Hydroxybenzo (a)pyrene, with hydrolysis(Urine ) | Nonquantitative | End of shift at end of work week | |

◆ Monitoring methods

| | |
|---|---|
| 1 | EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |
| 2 | GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air. |

◆ Derived No effect level (DNEL)

| Component | Route of exposure | DNEL for Workers | | | |
|---|---|---|---|---|---|
| | | Acute effects (local) | Acute effects (systemic) | Chronic effects (local) | Chronic effects (systemic) |
| **Dichloromethane** | Inhalation | No data available | No data available | No data available | 176 mg/m3 |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Aniline** | Inhalation | No data available | No data available | No data available | 7.7 mg/m3 |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **2-chlorophenol** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Nitrobenzene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Naphthalene** | Inhalation | No data available | No data available | 25 mg/m3 | 25 mg/m3 |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Benz[a]anthracene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Chrysene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Benzo[e]acephenanthrylene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Benzo[k]fluoranthene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Benzo[def]chrysene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Indeno[1,2,3-cd]pyrene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| **Dibenz[a,h]anthracene** | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |

| | | | | | |
|---|---|---|---|---|---|
| | Dermal | No data available | No data available | No data available | No data available |

◆ Predicted No Effect Concentration (PNEC)

| Component | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| **Dichloromethane** | 130 - 310 µg/L | 31 - 130 µg/L | 26 mg/L | 163 - 2570 µg/kg sediment dw | 163 - 260 µg/kg sediment dw | No hazard identified | 173 - 330 µg/kg soil dw | No potential for bioaccumulation |
| **Aniline** | 1.2 µg/L | 120 ng/L | 2 mg/L | 153 µg/kg sediment dw | 15.3 µg/kg sediment dw | No hazard identified | 33 µg/kg soil dw | 2.3 g/kg food |
| **Naphthalene** | 2.4 µg/L | 2.4 µg/L | 2.9 mg/L | 67.2 µg/kg sediment dw | 67.2 µg/kg sediment dw | No hazard identified | 53.3 µg/kg soil dw | No potential for bioaccumulation |

**Note 1:**

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

**Note 2:**

The PNEC values of the remaining components not shown in the product are not available yet.

## 8.2 Exposure controls

### 8.2.1 Engineering controls

| | |
|---|---|
| 1 | Ensure adequate ventilation, especially in confined areas. |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| 4 | Set up emergency exit and necessary risk-elimination area. |

### 8.2.2 Personal protection equipment

| | |
|---|---|
| General requirement |  |
| Eye protection | Must wear appropriate safety goggles. |
| Hand protection | Must wear appropriate chemical protective gloves. |
| Respiratory protection | Must wear appropriate personal respiratory protective equipment. |
| Skin and body protection | Must wear appropriate chemical protective clothing and chemical resistant shoes. |

### 8.2.3 Environmental exposure controls

| | |
|---|---|
| Environmental exposure controls | No information available |

# 9 Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | clear or yellow liquid |
| Colour | clear or yellow liquid |
| Odor | No information available |
| Odor threshold | No information available |
| pH | No information available |
| Melting point/freezing point(°C) | -97 ( Dichloromethane ) |
| Initial boiling point and boiling range(°C) | 40 ( Dichloromethane ) |
| Flash point(Closed cup,°C) | No information available |
| Evaporation rate | No information available |
| Flammability | No information available |
| Upper/lower explosive limits[%(v/v)] | Upper limit : 22 ( Dichloromethane ); Lower limit : 13 ( Dichloromethane ) |
| Vapor pressure | 47.4kPa ( 20°C,Dichloromethane ) |
| Vapor density(Air = 1) | 2.9 ( Dichloromethane ) |
| Relative density(Water=1) | 1.3 ( 20°C,Dichloromethane ) |
| Solubility | 20g/l ( 20°C,Dichloromethane ) |
| n-octanol/water partition coefficient | 1.25 ( Dichloromethane ) |
| Auto-ignition temperature(°C) | 605 ( Dichloromethane ) |
| Decomposition temperature(°C) | No information available |
| Kinematic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Particle characteristics | Not applicable |

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

| | |
|---|---|
| Information with regard to physical hazard classes | No information available |

### 9.2.2 Other safety characteristics

| | |
|---|---|
| Other safety characteristics | No information available |

# 10 Stability and reactivity

## Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity | Contact with incompatible substances can cause decomposition or other chemical reactions. |
| 10.2 Chemical stability | Stable under proper operation and storage conditions. |
| 10.3 Possibility of hazardous reactions | Reactions with metals form metal organic coumpounds. In contact with oxidants, anhydrides, metals, metal oxides / KMnO4 metal salts, nitro-compounds may cause a fire or explosion. In contact with ammonia, strong inorganic alkalis, active metals, alkali carbonates, metal oxides or metal alkaoxides may result in an explosion. In contact with halides may cause an active reaction. |

| | |
|---|---|
| **10.4 Conditions to avoid** | Incompatible materials, heat, flame and spark. |
| **10.5 Incompatible materials** | Metal, oxidantss and alkali. Oxidants, halogen, anhydrides, acids, metals, metal oxides, potassium permanganate, nitro-compounds and metal salts. Ammonia, strong inorganic alkalis, active metal, alkali metal carbonates, metal oxides, metal alkaoxides, and nitric acid. Halides, oxidants and halogen. |
| **10.6 Hazardous decomposition products** | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11 Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

| 11 Mix SVOC in dichloromethane | |
|---|---|
| **Skin corrosion/irritation** | Based on available data, the classification criteria are not met |
| **Serious eye damage/irritation** | Based on available data, the classification criteria are not met |
| **Skin sensitization** | Based on available data, the classification criteria are not met |
| **Respiratory sensitization** | Based on available data, the classification criteria are not met |
| **Reproductive toxicity** | Based on available data, the classification criteria are not met |
| **STOT-single exposure** | Based on available data, the classification criteria are not met |
| **STOT-repeated exposure** | May cause damage to organs through prolonged or repeated exposure(Category 2) |
| **Aspiration hazard** | Based on available data, the classification criteria are not met |
| **Germ cell mutagenicity** | May cause genetic defects(Category 1B) |

### Acute toxicity

| Component | $LD_{50}$(oral) | $LD_{50}$(dermal) | $LC_{50}$(inhalation,4h) |
|---|---|---|---|
| **Dichloromethane** | 1600mg/kg(Rat) | No information available | No information available |
| **2-chlorophenol** | 40mg/kg(Rat) | No information available | No information available |
| **Aniline** | 250mg/kg(Rat) | 837mg/kg(Rabbit) | No information available |
| **Nitrobenzene** | 349mg/kg(Rat) | 760mg/kg(Rabbit) | 556ppmV(Rat) |
| **Naphthalene** | 490mg/kg(Rat) | > 20000mg/kg(Rabbit) | No information available |

### Carcinogenicity

| Component | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP |
|---|---|---|
| **Dichloromethane** | Category 2A | Category R |
| **Aniline** | Category 2A(Remark 1) | Not Listed |
| **2-chlorophenol** | Not Listed | Not Listed |
| **Nitrobenzene** | Category 2B | Category R |
| **Naphthalene** | Category 2B | Category R |
| **Benz[a]anthracene** | Category 2B | Category R |
| **Chrysene** | Category 2B | Category R |
| **Benzo[e]acephenanthrylene** | Category 2B | Category R |
| **Benzo[k]fluoranthene** | Category 2B | Category R |

| | | |
|---|---|---|
| **Benzo[def]chrysene** | Category 1(Remark 2) | Category R |
| **Indeno[1,2,3-cd]pyrene** | Category 2B | Category R |
| **Dibenz[a,h]anthracene** | Category 2A(Remark 3) | Category R |

Remark 1: see also Aniline hydrochloride; Remark 2: Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data; Remark 3: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data

### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

| Component | Endocrine disrupting properties |
|---|---|
| **Dichloromethane** | No information available |
| **Aniline** | No information available |
| **2-chlorophenol** | No information available |
| **Nitrobenzene** | No information available |
| **Naphthalene** | No information available |
| **Benz[a]anthracene** | No information available |
| **Chrysene** | No information available |
| **Benzo[e]acephenanthrylene** | No information available |
| **Benzo[k]fluoranthene** | No information available |
| **Benzo[def]chrysene** | No information available |
| **Indeno[1,2,3-cd]pyrene** | No information available |
| **Dibenz[a,h]anthracene** | No information available |

### 11.2.2 Other Information

| | |
|---|---|
| **Other Information** | See Section 11.1 |

## 12 Ecological information

### 12.1 Toxicity

### Acute aquatic toxicity

| Component | Fish | Crustaceans | Algae or other aquatic plants |
|---|---|---|---|
| **Dichloromethane** | $LC_{50}$ :193mg/L (96h)(Fish) | $EC_{50}$ : 1470mg/L (48h)(Crustaceans) | No information available |
| **Dibenz[a,h]anthracene** | $LC_{50}$ : >0.014mg/L (96h)(Fish) | $EC_{50}$ : >0.016mg/L (48h)(Crustaceans) | $ErC_{50}$ : >0.0013mg/L (72h)(Algae) |
| **Indeno[1,2,3-cd]pyrene** | $LC_{50}$ : >0.0037mg/L (96h)(Fish) | $EC_{50}$ : 0.0013mg/L (48h)(Crustaceans) | $ErC_{50}$ : 0.0002mg/L (72h)(Algae) |
| **2-chlorophenol** | $LC_{50}$ : 10.7mg/L (96h)(Fish) | $EC_{50}$ : 2.6mg/L (48h)(Crustaceans) | $ErC_{50}$ : 120mg/L (96h)(Algae) |
| **Aniline** | $LC_{50}$ : 27mg/L (96h)(Fish) | $EC_{50}$ : 0.32mg/L (48h)(Crustaceans) | $ErC_{50}$ : 20mg/L (96h)(Algae) |
| **Nitrobenzene** | $LC_{50}$ : 92mg/L (96h)(Fish) | $EC_{50}$ : 35mg/L (48h)(Crustaceans) | $ErC_{50}$ : 23.8mg/L (96h)(Algae) |

| | | | |
|---|---|---|---|
| **Benzo[def]chrysene** | No information available | $EC_{50}$ : 0.0013mg/L (48h)(Crustaceans) | No information available |
| **Naphthalene** | $LC_{50}$ : 0.9mg/L (96h)(Fish) | $EC_{50}$ : 3.6mg/L (48h)(Crustaceans) | No information available |
| **Benz[a]anthracene** | No information available | $EC_{50}$ : 0.00122mg/L (48h)(Crustaceans) | No information available |

## Chronic aquatic toxicity

| Component | Fish | Crustaceans | Algae or other aquatic plants |
|---|---|---|---|
| **Dibenz[a,h]anthracene** | No information available | NOEC : >0.016mg/L(Crustaceans) | NOEC : 0.00033mg/L(Algae) |
| **Indeno[1,2,3-cd]pyrene** | No information available | NOEC : 0.0012mg/L(Crustaceans) | NOEC : 0.000053mg/L(Algae) |
| **Aniline** | NOEC : 1.9mg/L(Fish) | NOEC : 0.0063mg/L(Crustaceans) | NOEC : 3.7mg/L(Algae) |

## 12.2 Persistence and degradability

| Component | Persistence (water/soil) | Persistence (air) |
|---|---|---|
| **2-chlorophenol** | High | High |
| **Naphthalene** | High(Half-life = 258 days) | Low(Half-life = 1.23 days) |
| **Benz[a]anthracene** | High(Half-life = 1360 days) | Low(Half-life = 0.33 days) |
| **Benzo[def]chrysene** | High(Half-life = 1060 days) | Low(Half-life = 0.18 days) |
| **Dibenz[a,h]anthracene** | High(Half-life = 1880 days) | Low(Half-life = 0.18 days) |

## 12.3 Bioaccumulative potential

| Component | Bioaccumulative potential | Comments |
|---|---|---|
| **2-chlorophenol** | Low | BCF=214 |
| **Naphthalene** | High | BCF=18000 |
| **Benz[a]anthracene** | High | Log Kow=5.61 |
| **Benzo[def]chrysene** | High | Log Kow=6.04 |
| **Dibenz[a,h]anthracene** | High | Log Kow=6.5 |

## 12.4 Mobility in soil

| Component | log Koc | Remark |
|---|---|---|
| **Dichloromethane** | 1.67 | 20 ℃ |
| **2-chlorophenol** | 2.647 | |
| **Nitrobenzene** | 2.07 | |
| **Naphthalene** | 2.58 | 20 ℃ |
| **Benz[a]anthracene** | 5.364 | |
| **Benzo[def]chrysene** | 5.896 | |
| **Dibenz[a,h]anthracene** | 6.419 | |

### 12.5 Results of PBT and vPvB assessment

| Component | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|---|---|
| **Dichloromethane** | Not PBT/vPvB |
| **Aniline** | Not PBT/vPvB |
| **2-chlorophenol** | Not PBT/vPvB |
| **Nitrobenzene** | Insufficient information, temporarily unable to evaluate |
| **Naphthalene** | Not PBT/vPvB |
| **Benz[a]anthracene** | Insufficient information, temporarily unable to evaluate |
| **Chrysene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[e]acephenanthrylene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[k]fluoranthene** | Insufficient information, temporarily unable to evaluate |
| **Benzo[def]chrysene** | Insufficient information, temporarily unable to evaluate |
| **Indeno[1,2,3-cd]pyrene** | Insufficient information, temporarily unable to evaluate |
| **Dibenz[a,h]anthracene** | Insufficient information, temporarily unable to evaluate |

### 12.6 Endocrine disrupting properties

| Component | Endocrine disrupting properties |
|---|---|
| **Dichloromethane** | No information available |
| **Aniline** | No information available |
| **2-chlorophenol** | No information available |
| **Nitrobenzene** | No information available |
| **Naphthalene** | No information available |
| **Benz[a]anthracene** | No information available |
| **Chrysene** | No information available |
| **Benzo[e]acephenanthrylene** | No information available |
| **Benzo[k]fluoranthene** | No information available |
| **Benzo[def]chrysene** | No information available |
| **Indeno[1,2,3-cd]pyrene** | No information available |
| **Dibenz[a,h]anthracene** | No information available |

### 12.7 Other adverse effects

| | |
|---|---|
| | No information available |

## 13 Disposal considerations

### 13.1 Waste treatment methods

| | |
|---|---|
| **Waste chemicals** | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal. |
| **Contaminated packaging** | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |

| | |
|---|---|
| Disposal recommendations | Refer to section waste chemicals and contaminated packaging. |

## 14 Transport information

### Label and Mark

| | |
|---|---|
| Transporting Label |  |

### IMDG-CODE

| | |
|---|---|
| 14.1 UN number | 3082 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class | 9 |
| 14.4 Packing group | Ⅲ |
| 14.5 Environmental hazards (Yes or no) | Yes |

### IATA-DGR

| | |
|---|---|
| 14.1 UN number | 3082 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class | 9 |
| 14.4 Packing group | Ⅲ |
| 14.5 Environmental hazards (Yes or no) | Yes |

### UN-ADR

| | |
|---|---|
| 14.1 UN number | 3082 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class | 9 |
| 14.4 Packing group | Ⅲ |
| 14.5 Environmental hazards (Yes or no) | Yes |

### Special precautions for user

| | |
|---|---|
| | Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements. |

### Maritime transport in bulk according to IMO instruments

◆Transport in bulk according to Annex II of MARPOL and the IBC code

| | |
|---|---|
| | Not Available |

◆Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| | |
|---|---|
| | Not Available |

◆Transport in bulk in accordance with the IGC Code

| | |
|---|---|
| | Not Available |

# 15 Regulatory information

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

### International chemical inventory

| Component | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichloromethane | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Aniline | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 2-chlorophenol | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Nitrobenzene | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Naphthalene | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Benz[a]anthracene | √ | √ | √ | × | √ | × | × | × | × | × | × | √ | √ |
| Chrysene | × | √ | √ | √ | √ | × | √ | √ | × | × | × | √ | √ |
| Benzo[e]acephenanthrylene | × | √ | × | × | √ | × | × | × | × | × | × | √ | √ |
| Benzo[k]fluoranthene | × | √ | × | × | √ | × | × | × | × | × | √ | √ | √ |
| Benzo[def]chrysene | √ | √ | √ | √ | √ | √ | √ | × | × | √ | √ | √ | √ |
| Indeno[1,2,3-cd]pyrene | × | √ | √ | × | √ | × | × | × | × | × | √ | √ | √ |
| Dibenz[a,h]anthracene | √ | √ | √ | × | √ | × | × | × | × | × | √ | √ | √ |

【A】 China Inventory of Existing Chemical Substances(IECSC)
【B】 European Inventory of Existing Commercial Chemical Substances(EC inventory)
【C】 United States Toxic Substances Control Act Inventory(TSCA)
【D】 Canadian Domestic Substances List(DSL)
【E】 New Zealand Inventory of Chemicals(NZIoC)
【F】 Philippines Inventory of Chemicals and Chemical Substances(PICCS)
【G】 Korea Existing Chemicals Inventory(KECL)
【H】 Australian. Inventory of Industrial Chemical (AIICS)
【I】 Japan Inventory of Existing & New Chemical Substances(ENCS)
【J】 Thailand Existing Chemicals Inventory(TECI)
【K】 Mexico National Inventory of Chemical Substances (INSQ)
【L】 Russia Inventory of Existing Substances(DRAFT)
【M】 Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

### List of Chemical Substances under International Conventions

| Component | A | B | C |
|---|---|---|---|
| Dichloromethane | × | × | × |
| Aniline | × | × | × |
| 2-chlorophenol | × | × | × |
| Nitrobenzene | × | × | × |
| Naphthalene | × | × | × |
| Benz[a]anthracene | × | × | × |
| Chrysene | × | × | × |
| Benzo[e]acephenanthrylene | × | × | × |
| Benzo[k]fluoranthene | × | × | × |

| | | | |
|---|---|---|---|
| **Benzo[def]chrysene** | × | × | × |
| **Indeno[1,2,3-cd]pyrene** | × | × | × |
| **Dibenz[a,h]anthracene** | × | × | × |

【A】 The Montreal Protocol on Substances that Deplete the Ozone Layer
【B】 Stockholm Convention on Persistent Organic Pollutants (POPs)
【C】 Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

## European chemical inventory

| Component | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| **Dichloromethane** | × | × | √ | √ | √ | √ | √ | × | × |
| **Aniline** | × | × | × | √ | √ | × | × | × | × |
| **2-chlorophenol** | × | × | × | √ | √ | × | × | × | × |
| **Nitrobenzene** | √ | × | √ | √ | √ | × | × | × | × |
| **Naphthalene** | × | × | √ | √ | √ | √ | √ | × | × |
| **Benz[a]anthracene** | √ | × | √ | √ | × | × | × | × | × |
| **Chrysene** | √ | × | √ | √ | × | × | × | × | × |
| **Benzo[e]acephenanthrylene** | × | × | √ | √ | × | × | √ | × | √ |
| **Benzo[k]fluoranthene** | √ | × | √ | √ | × | × | √ | × | √ |
| **Benzo[def]chrysene** | √ | × | √ | √ | × | × | √ | × | √ |
| **Indeno[1,2,3-cd]pyrene** | × | × | √ | √ | × | × | √ | × | √ |
| **Dibenz[a,h]anthracene** | × | × | √ | √ | × | × | × | × | × |

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorisation under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation – CoRAP under EU REACH
[G] List of priority substances under EU water policy （Directive 2455/2001/EC）
[H] Substances subject to POPs Regulation
[I] Substances proposed as POPs

Note:
"√" Indicates that the substance included in the regulations.
"×" No data or not included in the regulations.

## German water hazard class(WGK)

| Component | WGK | Remark |
|---|---|---|
| **Dichloromethane** | WGK 2 | |
| **Aniline** | WGK 3 | |
| **2-chlorophenol** | WGK 2 | |
| **Nitrobenzene** | WGK 3 | |
| **Naphthalene** | WGK 3 | |
| **Benzo[e]acephenanthrylene** | WGK 3 | |

| | | |
|---|---|---|
| **Benzo[k]fluoranthene** | WGK 3 | |
| **Benzo[def]chrysene** | WGK 3 | |

【WGK 1】 slightly hazardous to water
【WGK 2】 obviously hazardous to water
【WGK 3】 highly hazardous to water
【nwg】 non-hazardous to water
【awg】 hazardous to water in general

## German technical instructions on air quality control(TA LUFT)

| Component | TA LUFT | Remark |
|---|---|---|
| **Dichloromethane** | Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³ | |
| **Aniline** | Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³ | |
| **2-chlorophenol** | Chapter 5.2.5 Organic Substances.The following values, specified as overall carbon, are in all not allowed to be exceeded in exhaust gas:Mass flow:0,50 kg/hr or Mass conc.:50 mg/m³ At old units with an annual mass flow till 1,5 Mg/a, specified as total carbon, the emissions in exhaust gas are not allowed to exceed 1,5 kg/h. | |
| **Nitrobenzene** | Chapter 5.2.7.1.3 Substances toxic to reproductionMass flow: 2,5 g/hr or Mass conc.: 1 mg/m³ | |
| **Naphthalene** | Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³ | |
| **Benz[a]anthracene** | Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure. | |
| **Chrysene** | Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a | |

| | | |
|---|---|---|
| | precautionary measure. | |
| **Benzo[e]acephenanthrylene** | Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure. | |
| **Benzo[k]fluoranthene** | Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure. | |
| **Benzo[def]chrysene** | Kapitel 5.2.7.1.1 Krebserzeugende Stoffe. Klasse I. Als Mindestanforderung dürfen die folgende Werte im Abgas insgesamt nicht überschritten werden:Mass flow:0,15 g/hr or Mass conc.:0,05 mg/m³ | |
| **Indeno[1,2,3-cd]pyrene** | Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³ | |
| **Dibenz[a,h]anthracene** | Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure. | |

## German technical rules for hazardous substances(TRGS)

| Component | TRGS | Remark |
|---|---|---|
| **Dichloromethane** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 402\|TRGS 401\|TRGS 500\|TRGS 509\|TRGS 510 | |
| **Aniline** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 402\|TRGS 401\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800 | |
| **2-chlorophenol** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS | |

| | | |
|---|---|---|
| | 800 | |
| **Nitrobenzene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 402\|TRGS 401\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800 | |
| **Naphthalene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 402\|TRGS 401\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800\|TRGS 720\|TRGS 721\|TRGS 722\|TRGS 723\|TRGS 724 | |
| **Benz[a]anthracene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 410\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800\|TRGS 560\|TRGS 551\|TRGS 906 | |
| **Chrysene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 410\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800\|TRGS 551\|TRGS 906\|TRGS 560 | |
| **Benzo[e]acephenanthrylene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 410\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800\|TRGS 560\|TRGS 551\|TRGS 906 | |
| **Benzo[k]fluoranthene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 410\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800\|TRGS 560\|TRGS 551\|TRGS 906 | |
| **Benzo[def]chrysene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 410\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 560\|TRGS 551\|TRGS 906 | |
| **Indeno[1,2,3-cd]pyrene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 551\|TRGS 906 | |
| **Dibenz[a,h]anthracene** | TRGS 201\|TRGS 400\|TRGS 555\|TRGS 600\|TRGS 401\|TRGS 410\|TRGS 500\|TRGS 509\|TRGS 510\|TRGS 800\|TRGS 560\|TRGS 551\|TRGS 906 | |

### 15.2 Chemical safety assessment

| | |
|---|---|
| | No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier. |

## 16 Other information

### Information on revision

| | |
|---|---|
| Creation Date | 2026/01/08 |
| Revision Date | - |
| Reason for revision | - |

### Reference

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
[5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

## Abbreviations and acronyms

| | | | |
|---|---|---|---|
| CAS | Chemical Abstracts Service | UN | The United Nations |
| PC-STEL | Short term exposure limit | OECD | Organization for Economic Co-operation and Development |
| PC-TWA | Time Weighted Average | IMDG-CODE | International Maritime Dangerous Goods CODE |
| MAC | Maximum Allowable Concentration | IARC | International Agency for Research on Cancer |
| DNEL | Derived No Effect Level | ICAO | International Civil Aviation Organization |
| PNEC | Predicted No Effect Concentration | IATA | International Air Transportation Association |
| NOEC | No Observed Effect Concentration | ACGIH | American Conference of Governmental Industrial Hygienists |
| $LC_{50}$ | Lethal Concentration 50% | NFPA | National Fire Protection Association |
| $LD_{50}$ | Lethal Dose 50% | NTP | National Toxicology Program |
| $EC_{50}$ | Effective Concentration 50% | PBT | Persistent, Bioaccumulative, Toxic |
| $EC_X$ | Effective Concentration X% | vPvB | very Persistent, very Bioaccumulative |
| $P_{OW}$ | Partition coefficient Octanol: Water | CMR | Carcinogens, mutagens or substances toxic to reproduction |
| BCF | Bioconcentration factor | RPE | Respiratory Protective Equipment |
| ED | Endocrine disruptor | | |

## Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.