

Safety Data Sheet

Toluene in carbon tetrachloride

Version : V2.0.0.1

Report No. : BWQ7592-2016-MSDS-EP

Creation Date : 2025/12/22

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 | Toluene in carbon tetrachloride |
| Cat No. | BWQ7592-2016 |
| 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 3 |
| Acute Toxicity - Dermal | Category 3 |
| Acute Toxicity - Inhalation | Category 3 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity - repeated exposure | Category 1 |

| | |
|---|------------|
| Hazardous to the aquatic environment - long-term (chronic) hazard | Category 3 |
| Hazardous to the ozone layer | Category 1 |

2.2 Label elements

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

Hazard statements

| | |
|------|---|
| H301 | Toxic if swallowed |
| H311 | Toxic in contact with skin |
| H331 | Toxic if inhaled |
| H351 | Suspected of causing cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H412 | Harmful to aquatic life with long lasting effects |
| H420 | Harms public health and the environment by destroying ozone in the upper atmosphere |

Precautionary statements

◆ Prevention

| | |
|------|--|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been 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. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

◆ Response

| | |
|-----------|--|
| P311 | Call a POISON CENTER/ doctor. |
| P314 | Get medical advice/ attention if you feel unwell. |
| P321 | Specific treatment (see related instructions on the label). |
| P330 | Rinse mouth. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P361+P364 | Take off immediately all contaminated clothing and wash it before reuse. |

◆ Storage

| | |
|-----------|--|
| P405 | Store locked up. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

◆ Disposal

| | |
|------|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| P502 | Refer to manufacturer or supplier for information on recovery or recycling. |

| 2.3 Other hazards

◆ Results of PBT and vPvB assessment

| Component | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|----------------------|---|
| Toluene | Not PBT/vPvB |
| Carbon tetrachloride | Not PBT/vPvB |

◆ Results of endocrine disrupting properties assessment

| Component | Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605] |
|----------------------|--|
| Toluene | Insufficient information, temporarily unable to evaluate |
| Carbon tetrachloride | 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 |
|--|----------------------------|---|----------------------------------|
| Toluene CAS : 108-88-3 EC : 203-625-9 Index No. : 601-021-00-3 | 0.2523 | Flammable liquids, Category 2, H225; Aspiration hazard, Category 1, H304; Skin Corrosion/Irritation, Category 2, H315; Specific target organ toxicity - single exposure; narcotic effects, Category 3, H336; Reproductive toxicity, Category 2, H361; Specific target organ toxicity - repeated exposure, Category 2, H373 | - |
| Carbon tetrachloride CAS : 56-23-5 EC : 200-262-8 Index No. : 602-008-00-5 | 99.7477 | Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Acute Toxicity - Inhalation, Category 3, H331; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 3, H412; Hazardous to the ozone layer, Category 1, H420 | H372:C ≥ 1% H373:0.2% ≤ C < 1% |

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 skin with plenty of water or shower. Refer for medical attention. |
| Ingestion | Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention. |
| 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 or water spray; Large fire: dry chemical, CO ₂ , alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not get water inside containers. |
| Unsuitable extinguishing media | No information available. |

5.2 Specific hazards arising from the substance or mixture

| | |
|---|---|
| 1 | May emit poisonous fumes on fire. |
| 2 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 3 | 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 | Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. |
| 2 | Do not touch or walk through spilled material. |
| 3 | Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| 4 | Use personal protective equipment, do not breathe gas/mist/vapour/spray. |
| 5 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 6 | 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 | Do not touch or cross spills. |
| 2 | Cover with anti-solvent foam to reduce evaporation. |
| 3 | It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits. |
| 4 | Spray water disperses the vapor and dilutes the liquid spill. |
| 5 | Do not touch broken containers and spills before putting on appropriate protective clothing. |
| 6 | Cut off the source of the leak as much as possible. |
| 7 | Keep leaks in a ventilated place. |
| 8 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 9 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |
| 10 | 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/m ³ | ppm | mg/m ³ |
| Toluene | Japan - JSOH(2024-2025) | 50 | 188 | - | - |
| | Permissible exposure standards for workers in the workplace | 50 | 188 | 75 | 235 |
| | European Union | 50 | 192 | 100 | 384 |
| | France | 20 | 76.8 | 100 | 384 |
| | Germany (AGS) | 50 | 190 | 100 | 380 |
| | Germany (DFG) | 50 | 190 | 100 | 380 |
| Carbon tetrachloride | Japan - JSOH(2024-2025) | 5 | 31 | - | - |
| | Permissible exposure standards for workers in the workplace | 2 | 13 | 4 | 19.5 |
| | European Union | 1 | 6.4 | 5 | 32 |
| | France | 1 | 6.4 | 5 | 32 |
| | Germany (AGS) | 0.5 | 3.2 | 1 | 6.4 |
| | Germany (DFG) | 0.5 | 3.2 | 1 | 6.4 |

◆ Biological limit values

| Component | Standard | Biological monitoring index | Biological limits value | Sampling time | Remark |
|-----------|------------|--|-------------------------|----------------------------------|--------|
| Toluene | USA -ACGIH | o-Cresol, with hydrolysis(Creatinine in urine) | 0.3mg/g | End of shift | |
| | | Toluene(Urine) | 0.03mg/L | End of shift | |
| | | Toluene(Blood) | 0.02mg/L | Prior to last shift 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) |
| Toluene | Inhalation | No data available | No data available | 192 mg/m ³ | 192 mg/m ³ |
| | 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 |
| Carbon tetrachloride | Inhalation | No data available | No data available | No data available | 1.29 mg/m ³ |
| | 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 |
|----------------------|---------------|----------------|------------------|--------------------------------|-------------------------------|----------------------|--------------------------|----------------------------------|
| Toluene | 74 - 680 µg/L | 7.4 - 680 µg/L | 840 - 13610 µg/L | 1.78 - 16.39 mg/kg sediment dw | 178 - 16390 µg/kg sediment dw | No hazard identified | 313 - 2890 µg/kg soil dw | No potential for bioaccumulation |
| Carbon tetrachloride | 220 µg/L | 22 µg/L | 30 mg/L | No data available | No data available | No hazard identified | No data available | 222 µg/kg food |

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 dust proof gas mask. |
| 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 | colorless liquid |
| Colour | colorless liquid |
| Odor | No information available |
| Odor threshold | No information available |
| pH | No information available |
| Melting point/freezing point(°C) | -23 (Carbon tetrachloride) |
| Initial boiling point and boiling range(°C) | 76.5 (Carbon tetrachloride) |
| 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 : No information available ; Lower limit : No information available |
| Vapor pressure | 12.2kPa (20°C,Carbon tetrachloride) |
| Vapor density(Air = 1) | 5.3 (Carbon tetrachloride) |
| Relative density(Water=1) | 1.59 (Carbon tetrachloride) |
| Solubility | 846.1mg/L (20 °C,Carbon tetrachloride) |
| n-octanol/water partition coefficient | 2.64 (Carbon tetrachloride) |
| Auto-ignition temperature(°C) | No information available |
| Decomposition temperature(°C) | ≥100 (Carbon tetrachloride) |
| 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 | In contact with halides may cause an active reaction. In contact with metals, oxidants, triethyl aluminium, amines, boranes and their derivatives may cause an explosion severely. |
| 10.4 Conditions to avoid | Incompatible materials, heat, flame and spark. |
| 10.5 Incompatible materials | Halides, oxidants and halogen. Borane class and its derivatives, amines, metals, oxidants, triethyl aluminium, calcium and ethylene. |
| 10.6 Hazardous decomposition | Under normal conditions of storage and use, hazardous decomposition products |

| | |
|----------|-------------------------|
| 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

| Toluene in carbon tetrachloride | |
|---------------------------------|--|
| 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 | Causes damage to organs through prolonged or repeated exposure(Category 1) |
| Aspiration hazard | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met |

Acute toxicity

| Component | LD ₅₀ (oral) | LD ₅₀ (dermal) | LC ₅₀ (inhalation,4h) |
|----------------------|-------------------------|---------------------------|----------------------------------|
| Carbon tetrachloride | 2350mg/kg(Rat) | > 20000mg/kg(Rabbit) | 50.330mg/L(Rat) |
| Toluene | 636mg/kg(Rat) | 12200mg/kg(Rabbit) | 49mg/L(Rat) |

Carcinogenicity

| Component | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP |
|----------------------|--|------------------------------|
| Toluene | Category 3 | Not Listed |
| Carbon tetrachloride | Category 2B | Category R |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

| Component | Endocrine disrupting properties |
|----------------------|---------------------------------|
| Toluene | No information available |
| Carbon tetrachloride | 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 |
|----------------------|--|---|---|
| Carbon tetrachloride | LC ₅₀ : 7.6mg/L (96h)(Fish) | EC ₅₀ : 8.1mg/L (48h)(Crustaceans) | ErC ₅₀ : 0.46mg/L (72h)(Algae) |

| | | | |
|----------------|---------------------------------------|--|--|
| Toluene | LC ₅₀ : 25mg/L (96h)(Fish) | EC ₅₀ : 4.1mg/L (48h)(Crustaceans) | ErC ₅₀ : 29mg/L (72h)(Algae) |
|----------------|---------------------------------------|--|--|

| Chronic aquatic toxicity

| Component | Fish | Crustaceans | Algae or other aquatic plants |
|-----------------------------|--------------------------|---------------------------------|-------------------------------|
| Carbon tetrachloride | No information available | NOEC : 0.49mg/L(Crustaceans) | NOEC : 0.12mg/L(Algae) |
| Toluene | No information available | NOEC : 1.2mg/L(Crustaceans) | NOEC : 9.1mg/L(Algae) |

| 12.2 Persistence and degradability

| | |
|--------------------------------------|--------------------------|
| Persistence and degradability | No information available |
|--------------------------------------|--------------------------|

| 12.3 Bioaccumulative potential

| | |
|----------------------------------|--------------------------|
| Bioaccumulative potential | No information available |
|----------------------------------|--------------------------|

| 12.4 Mobility in soil

| Component | log Koc | Remark |
|-----------------------------|---------|--------|
| Toluene | 2.31 | 20 °C |
| Carbon tetrachloride | 2.06 | 20 °C |

| 12.5 Results of PBT and vPvB assessment

| Component | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|-----------------------------|---|
| Toluene | Not PBT/vPvB |
| Carbon tetrachloride | Not PBT/vPvB |

| 12.6 Endocrine disrupting properties

| Component | Endocrine disrupting properties |
|-----------------------------|---------------------------------|
| Toluene | No information available |
| Carbon tetrachloride | 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 | 2810 |
| 14.2 UN proper shipping name | TOXIC LIQUID, ORGANIC, N.O.S. |
| 14.3 Transport hazard class | 6.1 |
| 14.4 Packing group | III |
| 14.5 Environmental hazards (Yes or no) | No |

IATA-DGR

| | |
|---|-------------------------------|
| 14.1 UN number | 2810 |
| 14.2 UN proper shipping name | TOXIC LIQUID, ORGANIC, N.O.S. |
| 14.3 Transport hazard class | 6.1 |
| 14.4 Packing group | III |
| 14.5 Environmental hazards (Yes or no) | No |

UN-ADR

| | |
|---|-------------------------------|
| 14.1 UN number | 2810 |
| 14.2 UN proper shipping name | TOXIC LIQUID, ORGANIC, N.O.S. |
| 14.3 Transport hazard class | 6.1 |
| 14.4 Packing group | III |
| 14.5 Environmental hazards (Yes or no) | No |

Special precautions for user

| | |
|--|---|
| | Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. 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 |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Carbon tetrachloride | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

- [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 |
|----------------------|---|---|---|
| Toluene | × | × | × |
| Carbon tetrachloride | √ | × | × |

- [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 |
|----------------------|---|---|---|---|---|---|---|---|---|
| Toluene | × | × | √ | √ | √ | √ | × | × | × |
| Carbon tetrachloride | × | × | × | √ | √ | √ | × | × | × |

- [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 |
|----------------------|-------|--------|
| Toluene | WGK 3 | |
| Carbon tetrachloride | 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 |
|-----------------------------|---|--------|
| Toluene | 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/m ³ | |
| Carbon tetrachloride | 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/m ³ | |

German technical rules for hazardous substances(TRGS)

| Component | TRGS | Remark |
|-----------------------------|--|--------|
| Toluene | 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 | |
| Carbon tetrachloride | TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 | |

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 | 2025/12/22 |
| 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.