Safety Data Sheet

# 6 Mix chlorinated hydrocarbons in n-hexane

Version：V2.0.0.1
Report No.：BWQ9994-2016-MSDS-US
Creation Date：2025/10/20
Revision Date：-

*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

## 1 Identification

### Product identifier

| | |
|---|---|
| Product Name | 6 Mix chlorinated hydrocarbons in n-hexane |
| Cat No. | BWQ9994-2016 |
| CAS No. | Not applicable |
| EC No. | Not applicable |
| Molecular Formula | Not applicable |

### Recommended use of the product and restrictions on use

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

### 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 |

### Emergency phone number

| | |
|---|---|
| Emergency phone number | 010-58103678 |

## 2 Hazard(s) identification

### Hazard classification according to 29 CFR 1910.1200

| | |
|---|---|
| Flammable liquids | Category 2 |
| Aspiration hazard | Category 1 |
| Skin Corrosion/Irritation | Category 2 |
| Specific target organ toxicity - single exposure; narcotic effects | Category 3 |
| Carcinogenicity | Category 1B |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity - repeated exposure | Category 1 |

## Label elements

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

## Hazard statements

| | |
|---|---|
| H225 | Highly flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H336 | May cause drowsiness or dizziness |
| H350 | May cause cancer |
| H361 | Suspected of damaging fertility. Suspected of damaging the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure(nervous system) |

## Precautionary statements

◆ Prevention

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| 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 with adequate ventilation. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |

◆ Response

| | |
|---|---|
| P321 | Specific treatment (see related instructions on the label). |
| P331 | Do NOT induce vomiting. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | 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. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse |

| | |
|---|---|
| | affected areas with water [or shower]. |

◆ Storage

| | |
|---|---|
| **P405** | Store locked up. |
| **P403+P233** | Store in a well-ventilated place. Keep container tightly closed. |
| **P403+P235** | Store in a well-ventilated place. Keep cool. |

◆ Disposal

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

### Other hazards

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

### Hazard description

◆ Physical and chemical hazards

| | |
|---|---|
| | Highly flammable liquids, its vapor and air mixture can form explosive mixture. |

◆ Health hazards

| | |
|---|---|
| **Inhaled** | Dizziness. Drowsiness. Dullness. Headache. Nausea. Weakness. Unconsciousness. |
| **Ingestion** | Abdominal pain. (Further see Inhalation). |
| **Skin Contact** | Dry skin. Redness. Pain. |
| **Eye** | Redness. Pain. |

◆ Environmental hazards

| | |
|---|---|
| | Please refer to 12th chapter of SDS. |

## 3 Composition/information on ingredients

### Substance/mixture

| | |
|---|---|
| | Mixture |

| Component | CAS No. | EC No. | Concentration (wt, %) |
|---|---|---|---|
| **Dichloromethane** | 75-09-2 | 200-838-9 | 0.13 |
| **1,2-dichloroethane** | 107-06-2 | 203-458-1 | 0.13 |
| **Chloroform** | 67-66-3 | 200-663-8 | 0.13 |
| **1,1,1-trichloroethane** | 71-55-6 | 200-756-3 | 0.13 |
| **Carbon tetrachloride** | 56-23-5 | 200-262-8 | 0.13 |
| **1,1,2-trichloroethane** | 79-00-5 | 201-166-9 | 0.13 |
| **N-hexane** | 110-54-3 | 203-777-6 | 99.22 |

## 4 First-aid measures

### 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. Refer for medical attention. |
| **Ingestion** | Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention. |
| **Inhalation** | Fresh air, rest. 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. |

### 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. |

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

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

## 5 Fire-fighting measures

### 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. |
| **Unsuitable extinguishing media** | No information available. |

### 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. |

### Special protective equipment and precautions for fire-fighters

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

### 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. |

### Environmental precautions

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

### 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. |

## 7 Handling and storage

### Precautions for safe handling

| | |
|---|---|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |
| 4 | Keep away from heat/sparks/open flames/ hot surfaces. |

### 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. |

## 8 Exposure controls/personal protection

### 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 |
| | Australia | 50 | 174 | - | - |
| | Canada - Ontario | 50 | - | - | - |
| | European Union | 100 | 353 | 200 | 706 |
| | New Zealand | 50 | 174 | - | - |
| **1,2-dichloroethane** | Japan - | 10 | 40 | - | - |

| | | | | | |
|---|---|---|---|---|---|
| | JSOH(2024–2025) | | | | |
| | Permissible exposure standards for workers in the workplace | 10 | 40 | 15 | 60 |
| | Australia | 10 | 40 | - | - |
| | Canada - Ontario | 10 | - | - | - |
| | European Union | 2 | 8.2 | - | - |
| | New Zealand | 5 | 21 | - | - |
| **Chloroform** | Japan - JSOH(2024–2025) | 3 | 14.7 | - | - |
| | Permissible exposure standards for workers in the workplace | - | - | - | - |
| | Australia | 2 | 10 | - | - |
| | Canada - Ontario | 10 | - | - | - |
| | European Union | 2 | 10 | - | - |
| | New Zealand | 2 | 9.9 | - | - |
| **1,1,1-trichloroethane** | Japan - JSOH(2024–2025) | 200 | 1090 | - | - |
| | Permissible exposure standards for workers in the workplace | 350 | 1910 | 437.5 | 1910 |
| | Australia | 100 | 555 | 200 | 1110 |
| | Canada - Ontario | 350 | - | 450 | - |
| | European Union | 100 | 555 | 200 | 1110 |
| | New Zealand | 100 | 555 | 200 | 1110 |
| **Carbon tetrachloride** | Japan - JSOH(2024–2025) | 5 | 31 | - | - |
| | Permissible exposure standards for workers in the workplace | 2 | 13 | 4 | 19.5 |
| | Australia | 0.1 | 0.63 | - | - |
| | Canada - Ontario | 2 | - | 3 | - |
| | European Union | 1 | 6.4 | 5 | 32 |
| | New Zealand | 0.1 | 0.63 | - | - |
| **1,1,2-trichloroethane** | Japan - JSOH(2024–2025) | 10 | 55 | - | - |
| | Permissible | 10 | 55 | 15 | 82.5 |

| | | | | | |
|---|---|---|---|---|---|
| | exposure standards for workers in the workplace | | | | |
| | Australia | 10 | 55 | - | - |
| | Canada - Ontario | 10 | - | - | - |
| | New Zealand | 10 | 55 | - | - |
| | USA - ACGIH | 10 | - | - | - |
| **N-hexane** | Japan - JSOH(2024–2025) | 40 | 140 | - | - |
| | Permissible exposure standards for workers in the workplace | 50 | 176 | 75 | 220 |
| | Australia | 20 | 72 | - | - |
| | Canada - Ontario | 50 | - | - | - |
| | European Union | 20 | 72 | - | - |
| | New Zealand | 20 | 72 | - | - |

### 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. |

### Personal protection equipment

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

## 9 Physical and chemical properties and safety characteristics

### Physical and chemical properties

| | |
|---|---|
| **Appearance (physical state, color, etc.)** | clear or yellow liquid |
| **Odor** | No information available |
| **Odor threshold** | No information available |
| **pH** | No information available |
| **Melting point/freezing point(°C)** | -95 ( N-hexane ) |
| **Initial boiling point and boiling range(°C)** | 69 ( N-hexane ) |

| | |
|---|---|
| Flash point(Closed cup,°C) | -22 ( N-hexane ) |
| Evaporation rate | No information available |
| Flammability | No information available |
| Upper/lower explosive limits[%(v/v)] | Upper limit : 7.5 ( N-hexane ); Lower limit : 1.1 ( N-hexane ) |
| Vapor pressure | 17kPa ( 20°C,N-hexane ) |
| Vapor density(Air = 1) | 3.0 ( N-hexane ) |
| Relative density(Water=1) | 0.66~0.68 ( 20 °C,N-hexane ) |
| Solubility | Insoluble in water ( N-hexane ) |
| n-octanol/water partition coefficient | 3.9 ( N-hexane ) |
| Auto-ignition temperature(°C) | 225 ( N-hexane ) |
| Decomposition temperature(°C) | No information available |
| Kinematic viscosity | No information available |

## 10 Stability and reactivity

### Stability and reactivity

| | |
|---|---|
| Reactivity | Contact with incompatible substances can cause decomposition or other chemical reactions. |
| Chemical stability | Stable under proper operation and storage conditions. |
| Possibility of hazardous reactions | Reactions with metals form metal organic coumpounds. In contact with metals, oxidants, triethyl aluminium, amines, boranes and their derivatives may cause an explosion severely. In contact with an open flame may cause a fire or explosion. |
| Conditions to avoid | Incompatible materials, heat, flame and spark. |
| Incompatible materials | Metal, oxidantss and alkali. Borane class and its derivatives, amines, metals, oxidants, triethyl aluminium, calcium and ethylene. Oxidantss and halogen. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11 Toxicological information

### 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) |
| **Chloroform** | 695mg/kg(Rat) | > 20000mg/kg(Rabbit) | 47.702mg/L(Rat) |
| **1,2-dichloroethane** | 670mg/kg(Rat) | 2800mg/kg(Rabbit) | No information available |
| **Dichloromethane** | 1600mg/kg(Rat) | No information available | No information available |
| **N-hexane** | 25000mg/kg(Rat) | No information available | 169.188mg/L(Rat) |
| **1,1,1-trichloroethane** | 9600mg/kg(Rat) | No information available | 98.209mg/L(Rat) |
| **1,1,2-trichloroethane** | 836mg/kg(Rat) | 5350mg/kg(Rabbit) | No information available |

### Carcinogenicity

| Component | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP | OSHA Carcinogen List |
|---|---|---|---|

| | | | |
|---|---|---|---|
| **Dichloromethane** | Category 2A | Category R | Listed |
| **1,2-dichloroethane** | Category 2B | Category R | Not Listed |
| **Chloroform** | Category 2B | Category R | Not Listed |
| **1,1,1-trichloroethane** | Category 2A | Not Listed | Not Listed |
| **Carbon tetrachloride** | Category 2B | Category R | Not Listed |
| **1,1,2-trichloroethane** | Category 3 | Not Listed | Not Listed |
| **N-hexane** | Not Listed | Not Listed | Not Listed |

### Others

| **6 Mix chlorinated hydrocarbons in n-hexane** | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation(Category 2) |
| **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** | Suspected of damaging fertility. Suspected of damaging the unborn child(Category 2) |
| **STOT-single exposure** | May cause drowsiness or dizziness(Category 3) |
| **STOT-repeated exposure** | Causes damage to organs through prolonged or repeated exposure(nervous system)(Category 1) |
| **Aspiration hazard** | May be fatal if swallowed and enters airways(Category 1) |
| **Germ cell mutagenicity** | Based on available data, the classification criteria are not met |

## 12 Ecological information

### 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) |
| **Chloroform** | $LC_{50}$ : > 110mg/L (96h)(Fish) | No information available | No information available |
| **1,2-dichloroethane** | $LC_{50}$ :136mg/L (96h)(Fish) | $EC_{50}$ : 99mg/L (48h)(Crustaceans) | $ErC_{50}$ : 230mg/L (72h)(Algae) |
| **Dichloromethane** | $LC_{50}$ :193mg/L (96h)(Fish) | $EC_{50}$ : 1470mg/L (48h)(Crustaceans) | No information available |
| **N-hexane** | $LC_{50}$ : 57.8mg/L (96h)(Fish) | No information available | No information available |
| **1,1,1-trichloroethane** | $LC_{50}$ : 42.3mg/L (96h)(Fish) | $EC_{50}$ : 11.2mg/L (48h)(Crustaceans) | No information available |
| **1,1,2-trichloroethane** | $LC_{50}$ : 40mg/L (96h)(Fish) | $EC_{50}$ : 79.5mg/L (48h)(Crustaceans) | $ErC_{50}$ : 200mg/L (96h)(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) |

| | | | |
|---|---|---|---|
| **1,2-dichloroethane** | NOEC：41mg/L(Fish) | NOEC：1.0mg/L(Crustaceans) | NOEC：55mg/L(Algae) |

### Persistence and degradability

| Component | Persistence (water/soil) | Persistence (air) |
|---|---|---|
| **1,1,1-trichloroethane** | High(Half-life = 546 days) | High(Half-life = 2247.04 days) |
| **1,1,2-trichloroethane** | High(Half-life = 730 days) | Medium(Half-life = 81.5 days) |
| **N-hexane** | Low | Low |

### Bioaccumulative potential

| Component | Bioaccumulative potential | Comments |
|---|---|---|
| **1,1,1-trichloroethane** | Low | BCF=9 |
| **1,1,2-trichloroethane** | Low | BCF=17 |
| **N-hexane** | Medium | Log Kow=3.9 |

### Mobility in soil

| Component | log Koc | Remark |
|---|---|---|
| **Dichloromethane** | 1.67 | 20 ℃ |
| **Chloroform** | 2.27 | 20 ℃ |
| **1,1,1-trichloroethane** | 0.34 | 20 ℃ |
| **Carbon tetrachloride** | 2.06 | 20 ℃ |
| **1,1,2-trichloroethane** | 1.831 | |
| **N-hexane** | ≥2.37 - ≤3.16 | 20 ℃， pH=7.0 |

## 13 Disposal considerations

### Disposal considerations

| | |
|---|---|
| **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

| | |
|---|---|
| **UN number** | 1593 |
| **UN proper shipping name** | DICHLOROMETHANE |

| | |
|---|---|
| Transport hazard class | 6.1 |
| Transport subsidiary hazard class | None |
| Packing group | Ⅲ |
| Marine pollutant ( Yes or no ) | No |

### IATA-DGR

| | |
|---|---|
| UN number | 1593 |
| UN proper shipping name | DICHLOROMEETHANE |
| Transport hazard class | 6.1 |
| Transport subsidiary hazard class | None |
| Packing group | Ⅲ |

### UN-ADR

| | |
|---|---|
| UN number | 1593 |
| UN proper shipping name | DICHLOROMETHANE |
| Transport hazard class | 6.1 |
| Transport subsidiary hazard class | None |
| Packing group | Ⅲ |

### 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

### Others

| | |
|---|---|
| Precautions for transport | 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. |

## 15 Regulatory information

### International chemical inventory

| Component | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichloromethane | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 1,2-dichloroethane | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Chloroform | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-trichloroethane** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **Carbon tetrachloride** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **1,1,2-trichloroethane** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **N-hexane** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

【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** | × | × | × |
| **1,2-dichloroethane** | × | × | √ |
| **Chloroform** | × | × | × |
| **1,1,1-trichloroethane** | √ | × | × |
| **Carbon tetrachloride** | √ | × | × |
| **1,1,2-trichloroethane** | × | × | × |
| **N-hexane** | × | × | × |

【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

## US chemical inventory

| Component | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| **Dichloromethane** | √ | × | √ | √ | √ | √ | √ | √ |
| **1,2-dichloroethane** | √ | × | √ | √ | √ | √ | √ | √ |
| **Chloroform** | √ | √ | √ | √ | √ | √ | √ | √ |
| **1,1,1-trichloroethane** | √ | × | √ | √ | √ | √ | √ | √ |
| **Carbon tetrachloride** | √ | × | √ | √ | √ | √ | √ | √ |
| **1,1,2-trichloroethane** | √ | × | √ | √ | √ | √ | √ | √ |
| **N-hexane** | √ | × | √ | √ | √ | √ | √ | √ |

[A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
[B] US SARA 302- Extremely Hazardous Substance List
[C] US CERCLA- Hazardous Substances List
[D] US Massachusetts Right-to-Know Substance List
[E] US New Jersey Right to Know Hazardous Substance List
[F] US Pennsylvania Right to Know Hazardous Substance List

[G] US New York City Right-to-Know Hazardous Substance List
[H] US California Proposition 65 List

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

## 16 Other information

### Information on revision

| | |
|---|---|
| Creation Date | 2025/10/20 |
| 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 | HCS | Hazard Communication Standard |

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. 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.