

# 6 Phthalic acidesters in dichloromethane

## mixed

Version : V2.0.0.1

Report No. : BWL7020-2016-MSDS-EP

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\*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	6 Phthalic acidesters in dichloromethane mixed
Cat No.	BWL7020-2016
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

Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Hazardous to the aquatic environment - long-term (chronic) hazard	Category 3

## 2.2 Label elements

Hazard pictograms	
Signal word	<b>Danger</b>

## Hazard statements

H351	Suspected of causing cancer
H360DF	May damage fertility, May damage the unborn child
H412	Harmful to aquatic life with long lasting effects

## Precautionary statements

### ◆ Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### ◆ Response

P308+P313	IF exposed or concerned: Get medical advice/attention.
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### ◆ Storage

P405	Store locked up.
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### ◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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## 2.3 Other hazards

### ◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Dibutyl phthalate	Not PBT/vPvB
Benzyl butyl phthalate	Not PBT/vPvB
Bis(2-ethylhexyl) phthalate	Not PBT/vPvB
Diocetyl phthalate	Insufficient information, temporarily unable to evaluate
Di-"isononyl" phthalate	Not PBT/vPvB
Di-"isodecyl" phthalate	Insufficient information, temporarily unable to evaluate
Dichloromethane	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]
Dibutyl phthalate	Insufficient information, temporarily unable to evaluate
Benzyl butyl phthalate	Insufficient information, temporarily unable to evaluate

<b>Bis(2-ethylhexyl) phthalate</b>	Insufficient information, temporarily unable to evaluate
<b>Dioctyl phthalate</b>	Insufficient information, temporarily unable to evaluate
<b>Di-"isononyl" phthalate</b>	Insufficient information, temporarily unable to evaluate
<b>Di-"isodecyl" phthalate</b>	Insufficient information, temporarily unable to evaluate
<b>Dichloromethane</b>	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
<b>Dibutyl phthalate</b> CAS : 84-74-2 EC : 201-557-4 Index No. : 607-318-00-4	0.63	Reproductive toxicity, Category 1B, H360; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	-
<b>Benzyl butyl phthalate</b> CAS : 85-68-7 EC : 201-622-7 Index No. : 607-430-00-3	0.63	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	-
<b>Bis(2-ethylhexyl) phthalate</b> CAS : 117-81-7 EC : 204-211-0 Index No. : 607-317-00-9	0.63	Reproductive toxicity, Category 1B, H360	-
<b>Dioctyl phthalate</b> CAS : 117-84-0 EC : 204-214-7 Index No. : -	0.63	Not Classified	-
<b>Di-"isononyl" phthalate</b> CAS : 28553-12-0 EC : 249-079-5 Index No. : -	6.3	Not Classified	-
<b>Di-"isodecyl" phthalate</b> CAS : 26761-40-0 EC : 247-977-1 Index No. : -	6.3	Not Classified	-
<b>Dichloromethane</b> CAS : 75-09-2 EC : 200-838-9 Index No. : 602-004-00-3	84.88	Carcinogenicity, Category 2, H351	-

### 4 First-aid measures

#### 4.1 Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
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<b>Eye contact</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Skin contact</b>	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.
<b>Inhalation</b>	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>Protecting of first-aiders</b>	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.
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#### 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

<b>Suitable extinguishing media</b>	Small fire: dry chemical, CO <sub>2</sub> or water spray; Large fire: dry chemical, CO <sub>2</sub> , 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.
<b>Unsuitable extinguishing media</b>	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.
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2	Discharge into the environment must be avoided.
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### 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	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
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.
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#### ◆ Measures to prevent aerosol and dust generation

1	Not applicable.
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#### ◆ 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.
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## 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
<b>Dibutyl phthalate</b>	Japan - JSOH(2024–2025)	-	5	-	-
	Permissible exposure standards for workers in the workplace	-	5	-	10
	France	-	5	-	-
	Germany (AGS)	0.05	0.58	0.1	1.16
	Germany (DFG)	0.05	0.58	0.1	1.16
	United Kingdom	-	5	-	10
<b>Benzyl butyl phthalate</b>	Germany (AGS)	-	20	-	40
	Germany (DFG)	-	20	-	40
	United Kingdom	-	5	-	-
	Austria	-	3	-	5
	Denmark	-	3	-	6
	New Zealand	-	5	-	-
<b>Bis(2-ethylhexyl) phthalate</b>	Japan - JSOH(2024–2025)	-	5	-	-
	Permissible exposure standards for workers in the workplace	-	5	-	10
	France	-	5	-	-
	Germany (AGS)	-	2	-	4
	Germany (DFG)	-	2	-	4
	United Kingdom	-	5	-	10
<b>Dioctyl phthalate</b>	Austria	-	5	-	-
	Norway	-	3	-	-
	Romania	0.1	2	0.3	5
	Sweden	-	3	-	5
	Singapore	-	5	-	-
<b>Di-"isononyl" phthalate</b>	United Kingdom	-	5	-	-
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	New Zealand	-	5	-	-

<b>Di-"isodecyl" phthalate</b>	United Kingdom	-	5	-	-
	Austria	-	3	-	5
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	New Zealand	-	5	-	-
	Sweden	-	3	-	5
<b>Dichloromethane</b>	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

◆ Biological limit values

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
<b>Bis(2-ethylhexyl) phthalate</b>	USA -ACGIH	Mono(2-ethylhexyl)phthalate(Creatinine in urine)	5µg/g	End of shift	
		Mono(2-ethyl-5-hydroxyhexyl)phthalate(Creatinine in urine)	20µg/g	End of shift	
		Mono(2-ethyl-5-oxohexyl)phthalate(Creatinine in urine)	15µg/g	End of shift	
		Mono(2-ethyl-5-carboxypentyl)phthalate(Creatinine in urine)	25µg/g	End of shift	
<b>Dichloromethane</b>	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	

◆ 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)
Dibutyl phthalate	Inhalation	No data available	No data available	No data available	0.13 mg/m <sup>3</sup>
	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
Benzyl butyl phthalate	Inhalation	No data available	No data available	No data available	4.36 mg/m <sup>3</sup>
	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
Bis(2-ethylhexyl) phthalate	Inhalation	No data available	No data available	No data available	1.6 mg/m <sup>3</sup>
	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
Di-octyl phthalate	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
Di-"isononyl" phthalate	Inhalation	No data available	No data available	No data available	18.8 mg/m <sup>3</sup>
	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
Di-"isodecyl" phthalate	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
Dichloromethane	Inhalation	No data available	No data available	No data available	176 mg/m <sup>3</sup>
	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
Dibutyl phthalate	10 µg/L	1 µg/L	220 µg/L	1.19 mg/kg sediment dw	119 µg/kg sediment dw	No hazard identified	50 µg/kg soil dw	1.33 mg/kg food
Benzyl butyl phthalate	7.5 µg/L	750 ng/L	20 mg/L	7.89 mg/kg sediment dw	789 µg/kg sediment dw	No data available	1.57 mg/kg soil dw	100 mg/kg food
Bis(2-ethylhexyl) phthalate	No hazard identified	No hazard identified	201 mg/L	100 mg/kg sediment dw	20 mg/kg sediment dw	No hazard identified	13 mg/kg soil dw	3.3 mg/kg food
Di-"isononyl" phthalate	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	30 mg/kg soil dw	No potential for bioaccumulation
Dichloromethane	130 - 310 µg/L	31 - 130 µg/L	26 mg/L	163 - 2570 µg/kg	163 - 260 µg/kg	No hazard identified	173 - 330 µg/kg	No potential for

				sediment dw	sediment dw		soil dw	bioaccumulation
<b>Note 1:</b> A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).								
<b>Note 2:</b> 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
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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Colorless to light yellow transparent liquid.
Colour	Colorless to light yellow transparent 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[%d(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
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### 9.2.2 Other safety characteristics

Other safety characteristics	No information available
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## 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 compounds.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	Metal, oxidantss and alkali.
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

6 Phthalic acidesters in dichloromethane mixed	
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	May damage fertility, May damage the unborn child(Category 1B)
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
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 <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Dibutyl phthalate	7499mg/kg(Rat)	> 20900mg/kg(Rabbit)	No information available
Di-"isodecyl" phthalate	64000mg/kg(Rat)	> 3160mg/kg(Rabbit)	No information available
Diocetyl phthalate	47000mg/kg(Rat)	No information available	No information available
Benzyl butyl phthalate	2330mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Dichloromethane	1600mg/kg(Rat)	No information available	No information available
Bis(2-ethylhexyl) phthalate	30000mg/kg(Rat)	25000mg/kg(Rabbit)	No information available

## | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Dibutyl phthalate	Not Listed	Not Listed
Benzyl butyl phthalate	Category 3	Not Listed
Bis(2-ethylhexyl) phthalate	Category 2B	Category R
Diocetyl phthalate	Not Listed	Not Listed
Di-"isononyl" phthalate	Not Listed	Not Listed
Di-"isodecyl" phthalate	Not Listed	Not Listed
Dichloromethane	Category 2A	Category R

## | 11.2 Information on other hazards

### | 11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dibutyl phthalate	No information available
Benzyl butyl phthalate	No information available
Bis(2-ethylhexyl) phthalate	No information available
Diocetyl phthalate	No information available
Di-"isononyl" phthalate	No information available
Di-"isodecyl" phthalate	No information available
Dichloromethane	No information available

### | 11.2.2 Other Information

Other Information	See Section 11.1
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## 12 Ecological information

### | 12.1 Toxicity

#### | Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants

<b>Dibutyl phthalate</b>	LC <sub>50</sub> : 1.51mg/L (96h)(Fish)	EC <sub>50</sub> : 2.99mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 0.4mg/L (96h)(Algae)
<b>Diocetyl phthalate</b>	LC <sub>50</sub> : >20mg/L (96h)(Fish)	EC <sub>50</sub> : >0.00067mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : >20mg/L (72h)(Algae)
<b>Benzyl butyl phthalate</b>	LC <sub>50</sub> : >1.1mg/L (96h)(Fish)	EC <sub>50</sub> : 1.8mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 0.11mg/L (96h)(Algae)
<b>Dichloromethane</b>	LC <sub>50</sub> : 193mg/L (96h)(Fish)	EC <sub>50</sub> : 1470mg/L (48h)(Crustaceans)	No information available
<b>Bis(2-ethylhexyl) phthalate</b>	LC <sub>50</sub> : 75mg/L (96h)(Fish)	EC <sub>50</sub> : >100mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : >100mg/L (72h)(Algae)

### Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
<b>Dibutyl phthalate</b>	NOEC : 1.1mg/L(Fish)	NOEC : 0.33mg/L(Crustaceans)	NOEC : 0.3mg/L(Algae)
<b>Diocetyl phthalate</b>	No information available	NOEC : >0.00061mg/L(Cr ustaceans)	NOEC : 20mg/L(Algae)
<b>Benzyl butyl phthalate</b>	No information available	NOEC : 0.52mg/L(Crustaceans)	No information available
<b>Bis(2-ethylhexyl) phthalate</b>	No information available	NOEC : 10mg/L(Crustaceans)	NOEC : 100mg/L(Algae)

### 12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
<b>Benzyl butyl phthalate</b>	High(Half-life = 180 days)	Low(Half-life = 2.5 days)
<b>Bis(2-ethylhexyl) phthalate</b>	High(Half-life = 389 days)	Low(Half-life = 1.21 days)
<b>Diocetyl phthalate</b>	High(Half-life = 365 days)	Low(Half-life = 1.87 days)
<b>Di-"isononyl" phthalate</b>	High	High
<b>Di-"isodecyl" phthalate</b>	High	High

### 12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
<b>Benzyl butyl phthalate</b>	Medium	BCF=663
<b>Bis(2-ethylhexyl) phthalate</b>	High	BCF=24500
<b>Diocetyl phthalate</b>	Low	Log Kow=8.1
<b>Di-"isononyl" phthalate</b>	Low	BCF=183.8
<b>Di-"isodecyl" phthalate</b>	Low	BCF=14.4

### 12.4 Mobility in soil

Component	log Koc	Remark
<b>Dibutyl phthalate</b>	3.14	
<b>Benzyl butyl phthalate</b>	3.971	

Bis(2-ethylhexyl) phthalate	5.219	
Di-octyl phthalate	5.291	
Di-"isononyl" phthalate	0.78	20 °C
Di-"isodecyl" phthalate	6.201	
Dichloromethane	1.67	20 °C

## 12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Dibutyl phthalate	Not PBT/vPvB
Benzyl butyl phthalate	Not PBT/vPvB
Bis(2-ethylhexyl) phthalate	Not PBT/vPvB
Di-octyl phthalate	Insufficient information, temporarily unable to evaluate
Di-"isononyl" phthalate	Not PBT/vPvB
Di-"isodecyl" phthalate	Insufficient information, temporarily unable to evaluate
Dichloromethane	Not PBT/vPvB

## 12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dibutyl phthalate	No information available
Benzyl butyl phthalate	No information available
Bis(2-ethylhexyl) phthalate	No information available
Di-octyl phthalate	No information available
Di-"isononyl" phthalate	No information available
Di-"isodecyl" phthalate	No information available
Dichloromethane	No information available

## 12.7 Other adverse effects

	No information available
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## 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	
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**IMDG-CODE**

14.1 UN number	1593
14.2 UN proper shipping name	DICHLOROMETHANE
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	1593
14.2 UN proper shipping name	DICHLOROMEETHANE
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	1593
14.2 UN proper shipping name	DICHLOROMETHANE
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.
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**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
Dibutyl phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Benzyl butyl phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Bis(2-ethylhexyl) phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Di-octyl phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Di-"isononyl" phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Di-"isodecyl" phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Dichloromethane	√	√	√	√	√	√	√	√	√	√	√	√	√

- [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
Dibutyl phthalate	×	×	×
Benzyl butyl phthalate	×	×	×
Bis(2-ethylhexyl) phthalate	×	×	×
Di-octyl phthalate	×	×	×
Di-"isononyl" phthalate	×	×	×
Di-"isodecyl" phthalate	×	×	×
Dichloromethane	×	×	×

- [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
Dibutyl phthalate	√	√	√	√	√	×	×	×	×
Benzyl butyl phthalate	√	√	√	√	√	×	×	×	×
Bis(2-ethylhexyl) phthalate	√	√	√	√	√	×	√	×	×
Di-octyl phthalate	×	×	√	√	×	×	×	×	×

Di-"isononyl" phthalate	x	x	√	√	√	x	x	x	x
Di-"isodecyl" phthalate	x	x	√	√	x	x	x	x	x
Dichloromethane	x	x	√	√	√	√	√	x	x

- [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.  
 “x” No data or not included in the regulations.

### German water hazard class(WGK)

Component	WGK	Remark
Dibutyl phthalate	WGK 3	
Benzyl butyl phthalate	WGK 3	
Bis(2-ethylhexyl) phthalate	WGK 1	
Diocetyl phthalate	WGK 1	
Di-"isononyl" phthalate	WGK 1	
Di-"isodecyl" phthalate	WGK 1	
Dichloromethane	WGK 2	

- 【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
Dibutyl phthalate	Chapter 5.2.7.1.3 Substances toxic to reproduction Mass flow: 2,5 g/hr or Mass conc.: 1 mg/m <sup>3</sup>	
Benzyl butyl phthalate	Chapter 5.2.7.1.3 Substances toxic to reproduction Mass flow: 2,5 g/hr or Mass conc.: 1 mg/m <sup>3</sup>	
Bis(2-ethylhexyl) phthalate	Chapter 5.2.7.1.3 Substances toxic to reproduction Mass flow: 2,5 g/hr or Mass conc.: 1 mg/m <sup>3</sup>	
Diocetyl phthalate	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/m <sup>3</sup> 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.	
<b>Di-"isononyl" phthalate</b>	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/m <sup>3</sup> 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.	
<b>Di-"isodecyl" phthalate</b>	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/m <sup>3</sup> 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.	
<b>Dichloromethane</b>	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 <sup>3</sup>	

### German technical rules for hazardous substances(TRGS)

Component	TRGS	Remark
<b>Dibutyl phthalate</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 402 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Benzyl butyl phthalate</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Bis(2-ethylhexyl) phthalate</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Diocetyl phthalate</b>	TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Di-"isononyl" phthalate</b>	TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Di-"isodecyl" phthalate</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Dichloromethane</b>	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.
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### 16 Other information

## Information on revision

Creation Date	2026/01/26
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 <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>OW</sub>	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.