

## Safety Data Sheet

# DBP,DEHP and DINP quality control in milk

## powder

Version : V2.0.0.1

Report No. : BWS0516-2016-MSDS-EP

Creation Date : 2026/01/17

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	DBP,DEHP and DINP quality control in milk powder
Cat No.	BWS0516-2016
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

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance.

#### 2.2 Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

**Hazard statements**

Hazard statements	Not applicable
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**Precautionary statements**

## ◆ Prevention

Prevention	Not applicable
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## ◆ Response

Response	Not applicable
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## ◆ Storage

Storage	Not applicable
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## ◆ Disposal

Disposal	Not applicable
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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
Bis(2-ethylhexyl) phthalate	Not PBT/vPvB
Di-"isononyl" phthalate	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
Bis(2-ethylhexyl) phthalate	Insufficient information, temporarily unable to evaluate
Di-"isononyl" phthalate	Insufficient information, temporarily unable to evaluate

## ◆ Other

	Not applicable.
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**3 Composition/information on ingredients****3.1 Substance**

	Not applicable
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**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
Dibutyl phthalate CAS : 84-74-2 EC : 201-557-4 Index No. : 607-318-00-4	0.000095	Reproductive toxicity, Category 1B, H360; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	-
Bis(2-ethylhexyl) phthalate CAS : 117-81-7	0.00011	Reproductive toxicity, Category 1B, H360	-

EC : 204-211-0 Index No. : 607-317-00-9			
<b>Di-"isononyl" phthalate</b> CAS : 28553-12-0 EC : 249-079-5 Index No. : -	0.00203	Not Classified	-

## 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.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<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>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable extinguishing media</b>	There is no restriction on the type of extinguisher which may be used.

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

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

### 5.3 Advice for firefighters

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

## 6 Accidental release measures

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

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

## 6.2 Environmental precautions

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

## 6.3 Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Isolation of contaminated areas and restrictions on access.
4	It is recommended that emergency personnel wear dust masks.
5	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
6	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 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	Avoid formation of dust and aerosols.
2	Provide appropriate exhaust ventilation at places where dust is formed.

### ◆ 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>
Dibutyl phthalate	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
Bis(2-ethylhexyl) phthalate	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
Di-"isononyl" phthalate	United Kingdom	-	5	-	-
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	New Zealand	-	5	-	-

#### ◆ Biological limit values

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
Bis(2-ethylhexyl) phthalate	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	
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◆ 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
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-"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

◆ 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
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

**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	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

## 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 powdery solid
Colour	Colorless powdery solid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	-43 ( Di-"isononyl" phthalate )
Initial boiling point and boiling range(°C)	244~252 ( 0.7kPa,Di-"isononyl" phthalate )
Flash point(Closed cup, °C)	221 ( Di-"isononyl" phthalate )
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit :2.9( Di-"isononyl" phthalate ) ;Lower limit :0.4( Di-"isononyl" phthalate )
Vapor pressure	< 0.01Pa ( 20°C,Di-"isononyl" phthalate )
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	0.98 ( Di-"isononyl" phthalate )
Solubility	< 0.1g/L ( 20°C,Di-"isononyl" phthalate )
n-octanol/water partition coefficient	8.8 ( Di-"isononyl" phthalate )
Auto-ignition temperature(°C)	380 ( Di-"isononyl" phthalate )
Decomposition temperature(°C)	No information available
Kinematic viscosity	77.6 mm <sup>2</sup> /s ( 20°C,Di-"isononyl" phthalate )
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	No information available

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

Information with regard to	No information available
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## physical hazard classes

**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	No information available.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	No information available.
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****DBP,DEHP and DINP quality control in milk powder**

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	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
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
Bis(2-ethylhexyl) phthalate	Category 2B	Category R
Di-"isononyl" phthalate	Not Listed	Not Listed

**11.2 Information on other hazards**

### 11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dibutyl phthalate	No information available
Bis(2-ethylhexyl) phthalate	No information available
Di-"isononyl" phthalate	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
Dibutyl phthalate	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)
Bis(2-ethylhexyl) phthalate	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
Dibutyl phthalate	NOEC : 1.1mg/L(Fish)	NOEC : 0.33mg/L(Crustaceans)	NOEC : 0.3mg/L(Algae)
Bis(2-ethylhexyl) phthalate	No information available	NOEC : 10mg/L(Crustaceans)	NOEC : 100mg/L(Algae)

### 12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Bis(2-ethylhexyl) phthalate	High(Half-life = 389 days)	Low(Half-life = 1.21 days)
Di-"isononyl" phthalate	High	High

### 12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Bis(2-ethylhexyl) phthalate	High	BCF=24500
Di-"isononyl" phthalate	Low	BCF=183.8

### 12.4 Mobility in soil

Component	log Koc	Remark
Dibutyl phthalate	3.14	
Bis(2-ethylhexyl)	5.219	

phthalate		
Di-"isononyl" phthalate	0.78	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
Bis(2-ethylhexyl) phthalate	Not PBT/vPvB
Di-"isononyl" phthalate	Not PBT/vPvB

### 12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dibutyl phthalate	No information available
Bis(2-ethylhexyl) phthalate	No information available
Di-"isononyl" phthalate	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	Not applicable
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### IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### Special precautions for user

	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant
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	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
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- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	Not Available
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- ◆ Transport in bulk in accordance with the IGC Code

	Not Available
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## 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	√	√	√	√	√	√	√	√	√	√	√	√	√
Bis(2-ethylhexyl) phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Di-"isononyl" phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√

- [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	×	×	×
Bis(2-ethylhexyl) phthalate	×	×	×
Di-"isononyl" phthalate	×	×	×

- [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	√	√	√	√	√	×	×	×	×
Bis(2-ethylhexyl) phthalate	√	√	√	√	√	×	√	×	×

<b>Di-"isononyl" phthalate</b>	x	x	√	√	√	x	x	x	x
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- [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
<b>Dibutyl phthalate</b>	WGK 3	
<b>Bis(2-ethylhexyl) phthalate</b>	WGK 1	
<b>Di-"isononyl" phthalate</b>	WGK 1	

- 【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
<b>Dibutyl phthalate</b>	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>	
<b>Bis(2-ethylhexyl) phthalate</b>	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>	
<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.	

### | 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>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	
Di-"isononyl" phthalate	TRGS 500 TRGS 509 TRGS 510 TRGS 800	

## 15.2 Chemical safety assessment

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

## 16 Other information

### Information on revision

Creation Date	2026/01/17
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

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