Safety Data Sheet

4 Mix phthalates in toluene

Version: V2.0.0.1

Report No.: BWQ9780-2016-MSDS-US

Creation Date: 2025/10/16

Revision Date: -



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

1	Identification
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| Product identifier

Product Name	4 Mix phthalates in toluene
Cat No.	BWQ9780-2016
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

	040 50400070
Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 4
Aspiration hazard	Category 1
Skin Corrosion/Irritation	Category 2
Specific target organ toxicity - single exposure; narcotic effects	Category 3
Reproductive Toxicity	Category 1B
Specific target organ toxicity - repeated exposure	Category 2

| Label elements

| Hazard statements

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H360	May damage fertility and the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

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| 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 with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
A Posponso	

Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
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.

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.

Other hazards

Not applicable.

Hazard description

Physical and chemical hazards

	No information available
Health hazards	

Inhaled	Cough. Sore throat. Dizziness. Drowsiness. Headache. Nausea. Unconsciousness.
Ingestion	Burning sensation. Abdominal pain. (Further see Inhalation).
Skin Contact	Dry skin. Redness.
Eye	Redness. Pain.
◆ Environmental hazards	

12th chapter of SDS.
1

3 Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Diisobutyl phthalate	84-69-5	201-553-2	0.117
Bis(2-ethylhexyl) phthalate	117-81-7	204-211-0	0.117
Dibutyl phthalate	84-74-2	201-557-4	0.118
Benzyl butyl phthalate	85-68-7	201-622-7	0.118
Toluene	108-88-3	203-625-9	99.53

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. 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

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	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

4 Mix phthalates in toluene Version: V2.0.0.1 Revision Date: -Specific hazards arising from the substance or mixture Development of hazardous combustion gases or vapor possible in the event of fire. May expansion or decompose explosively when heated or involved in fire. 2 Special protective equipment and precautions for fire-fighters 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. Accidental release measures Personal precautions, protective equipment and emergency procedures Use personal protective equipment, do not breathe gas/mist/vapour/spray. 2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. 3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. 2 Methods and materials for containment and cleaning up 1 Cut off the source of the leak as much as possible. 2 Keep leaks in a ventilated place. 3 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. 4 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.
- 4 Store away from incompatible materials and foodstuff containers.

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
Diisobutyl phthalate	New Zealand	-	5	-	-
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	Latvia	-	1	-	-
	United Kingdom	-	5	-	-
Bis(2-ethylhexyl) phthalate	Japan - JSOH(2024–202 5)	-	5	-	-
	Permissible exposure standards for workers in the workplace	-	5	-	10
	Australia	-	5	-	10
	Canada - Ontario	-	3	-	5
	New Zealand	-	5	-	10
	USA - ACGIH	-	0.1	-	-
Dibutyl phthalate	Japan - JSOH(2024–202 5)	-	5	-	-
	Permissible exposure standards for workers in the workplace	-	5	-	10
	Australia	-	5	-	-
	Canada - Ontario	-	5	-	-
	New Zealand	0.05	0.58	-	-
	USA - ACGIH	-	5	-	-
Benzyl butyl phthalate	New Zealand	-	5	-	-
	Austria	-	3	-	5
	Denmark	-	3	-	6
	Germany (AGS)	-	20	-	40
	Germany (DFG)	-	20	-	40
	Norway	-	1	-	-
Toluene	Japan - JSOH(2024–202 5)	50	188	-	-
	Permissible exposure standards for workers in the workplace	50	188	75	235
	Australia	50	191	150	574

Canada - Ontario	20	-	-	-
European Union	50	192	100	384
New Zealand	20	75	100	377

| Engineering controls

- Ensure adequate ventilation, especially in confined areas.
 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 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.

Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state, color, etc.) Odor No information available Melting point/freezing point(°C) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) Flash point(Closed cup, °C) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) Initial boiling point and boiling range(°C) Initial boiling range(°C) Initial boiling range(°C) Initial boiling	Priysical and chemical prope	ities
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Odor threshold pH No information available No information available Melting point/freezing point(°C) -35 (Benzyl butyl phthalate) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) 198 (Benzyl butyl phthalate) Evaporation rate No information available Flammability No information available Upper/lower explosive limits[%(v/v)] Vapor pressure 0.001Pa (25°C,Benzyl butyl phthalate) Vapor density(Air = 1) 10.8 (Benzyl butyl phthalate) Relative density(Water=1) 1.1 (Benzyl butyl phthalate) Relative density(Water partition coefficient Auto-ignition temperature(°C) 425 (Benzyl butyl phthalate) Decomposition temperature(°C) No information available	color, etc.)	
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Decomposition temperature(°C) No information available	coefficient	
	Auto-ignition temperature(°C)	425 (Benzyl butyl phthalate)
Kinematic viscosity No information available	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	In contact with halides may cause an active reaction.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Halides, oxidants and halogen.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

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11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Toluene	636mg/kg(Rat)	12200mg/kg(Rabbit)	49mg/L(Rat)
Diisobutyl phthalate	15000mg/kg(Rat)	No information available	No information available
Bis(2-ethylhexyl) phthalate	30000mg/kg(Rat)	25000mg/kg(Rabbit)	No information available
Benzyl butyl phthalate	2330mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Dibutyl phthalate	7499mg/kg(Rat)	> 20900mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Diisobutyl phthalate	Not Listed	Not Listed	Not Listed
Bis(2-ethylhexyl) phthalate	Category 2B	Category R	Not Listed
Dibutyl phthalate	Not Listed	Not Listed	Not Listed
Benzyl butyl phthalate	Category 3	Not Listed	Not Listed
Toluene	Category 3	Not Listed	Not Listed

Others

4 Mix phthalates in toluene		
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	May damage fertility and the unborn child(Category 1B)	
STOT-single exposure	May cause drowsiness or dizziness(Category 3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure(Category 2)	
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
Toluene	LC ₅₀ : 25mg/L (96h)(Fish)	EC ₅₀ : 4.1mg/L	ErC ₅₀ : 29mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Diisobutyl phthalate	LC ₅₀ : 3.0mg/L (96h)(Fish)	EC ₅₀ : 6.7mg/L	ErC ₅₀ : 1.8mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Bis(2-ethylhexyl)	LC ₅₀ : 75mg/L (96h)(Fish)	EC ₅₀ : >100mg/L	ErC ₅₀ : >100mg/L
phthalate		(48h)(Crustaceans)	(72h)(Algae)
Benzyl butyl phthalate	LC ₅₀ : >1.1mg/L	EC ₅₀ : 1.8mg/L	ErC ₅₀ : 0.11mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)
Dibutyl phthalate	LC ₅₀ : 1.51mg/L	EC ₅₀ : 2.99mg/L	ErC ₅₀ : 0.4mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Toluene	No information available	NOEC :	NOEC: 9.1mg/L(Algae)
		1.2mg/L(Crustaceans)	
Diisobutyl phthalate	NOEC: 0.39mg/L(Fish)	NOEC :	NOEC: 0.37mg/L(Algae)
		0.27mg/L(Crustaceans)	
Bis(2-ethylhexyl)	No information available	NOEC :	NOEC: 100mg/L(Algae)
phthalate		10mg/L(Crustaceans)	
Benzyl butyl phthalate	No information available	NOEC :	No information available
		0.52mg/L(Crustaceans)	
Dibutyl phthalate	NOEC: 1.1mg/L(Fish)	NOEC :	NOEC: 0.3mg/L(Algae)
		0.33mg/L(Crustaceans)	

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Diisobutyl phthalate	Low	Low
Bis(2-ethylhexyl) phthalate	High(Half-life = 389 days)	Low(Half-life = 1.21 days)
Benzyl butyl phthalate	High(Half-life = 180 days)	Low(Half-life = 2.5 days)

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Diisobutyl phthalate	Medium	BCF=780
Bis(2-ethylhexyl) phthalate	High	BCF=24500
Benzyl butyl phthalate	Medium	BCF=663

| Mobility in soil

Component	log Koc	Remark
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Diisobutyl phthalate	3.06	20 ℃
Bis(2-ethylhexyl) phthalate	5.219	
Dibutyl phthalate	3.14	
Benzyl butyl phthalate	3.971	
Toluene	2.31	20 ℃

13 Disposal considerations

Disposal considerations

<u> </u>	
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

IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA-DGR

IATA-DGR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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

- [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)
- [1] 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	Α	В	С
Diisobutyl phthalate	×	×	×
Bis(2-ethylhexyl) phthalate	×	×	×
Dibutyl phthalate	×	×	×
Benzyl butyl phthalate	×	×	×
Toluene	×	×	×

- [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	Α	В	С	D	E	F	G	Н
Diisobutyl phthalate	×	×	×	×	×	×	×	×
Bis(2-ethylhexyl) phthalate	√	×	√	√	√	√	√	√
Dibutyl phthalate	√	√	√	√	√	√	√	√
Benzyl butyl phthalate	×	×	√	√	√	√	√	√
Toluene	1	×	√	√	√	√	√	√

- [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:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/16
Revision Date	-
Reason for revision	-

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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
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine dis ruptor	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.