Safety Data Sheet

17 Mix phthalates in hexane

Version: V2.0.0.1

Report No.: BWQ9311-2016-MSDS-US

Creation Date: 2025/10/10

Revision Date: -



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

1	Identification
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| Product identifier

Product Name	17 Mix phthalates in hexane
Cat No.	BWQ9311-2016
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
Sensitization - skin	Category 1
Specific target organ toxicity -	Category 3
single exposure; narcotic	
effects	
Reproductive Toxicity	Category 1B
Specific target organ toxicity -	Category 1
repeated exposure	

| Label elements

Hazard pictograms







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Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H336	May cause drowsiness or dizziness
H360	May damage fertility and the unborn child
H372	Causes damage to organs through prolonged or repeated exposure(nervous system)

| Precautionary statements

Prevention

Obtain special instructions before use.		
Do not handle until all safety precautions have been read and understood.		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
Keep container tightly closed.		
Ground and bond container and receiving equipment.		
Use explosion-proof [electrical/ventilating/lighting] equipment.		
Use non-sparking tools.		
Take action to prevent static discharges.		
Do not breathe gas/mist/vapour/spray.		
Wash hands and other parts of the body (if related) thoroughly after handling.		
Do not eat, drink or smoke when using this product.		
Use only outdoors or with adequate ventilation.		
Contaminated work clothing should not be allowed out of the workplace.		
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 alcohol-resistant foam; Large fire: alcohol-resistant foam; 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.

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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, %)
N-hexane	110-54-3	203-777-6	97.49
Dimethyl phthalate	131-11-3	205-011-6	0.14
Diethyl phthalate	84-66-2	201-550-6	0.14
Diallyl phthalate	131-17-9	205-016-3	0.14
Diisobutyl phthalate	84-69-5	201-553-2	0.14
Dibutyl phthalate	84-74-2	201-557-4	0.14
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.14
BIS(4-METHYL-2-PENTYL) PHTHALATE	146-50-9	-	0.14
Bis(2-ethoxyethyl) phthalate	605-54-9	210-090-5	0.14
Dipentyl phthalate	131-18-0	205-017-9	0.14
Dihexyl phthalate	84-75-3	201-559-5	0.14
Benzyl butyl phthalate	85-68-7	201-622-7	0.14

Bis(2-butoxyethyl) phthalate	117-83-9	204-213-1	0.14
Dicyclohexyl phthalate	84-61-7	201-545-9	0.14
Bis(2-ethylhexyl) phthalate	117-81-7	204-211-0	0.14
Diphenyl phthalate	84-62-8	201-546-4	0.14
Dioctyl phthalate	117-84-0	204-214-7	0.14
Dinonyl phthalate	84-76-4	201-560-0	0.14

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

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.

Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire:
	alcohol-resistant foam; 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	Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.	
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/	
	or vapour concentration.	
3	Vapours may travel to source of ignition and flash back.	
4	Liquid and vapour are flammable.	
5	Development of hazardous combustion gases or vapor possible in the event of fire.	
6	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	Avoid breathing vapours and contacting with skin and eye.
2	Beware of vapours accumulating to form explosive concentrations.
3	Vapours can accumulate in low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
6	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static

| Environmental precautions

7

- 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

- It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
- 2 In case of small amount of spillage, use clean non sparking tools to collect absorption materials.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

- In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
- 4 Collect absorbent material using a clean, non-sparking tool.
- 5 Cover with anti-solvent foam to reduce evaporation.
- 6 Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- 7 Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
- 8 Cut off the source of the leak as much as possible.
- 9 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 11 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
- 13 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.

4	Use explosion proof equipment.
5	Handling is performed in a well ventilated place.
6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	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
N-hexane	Japan - JSOH(2024–202 5)	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	-	-
Dimethyl phthalate	Permissible exposure standards for workers in the workplace	-	5	-	10
	Australia	-	5	-	-
	Canada - Ontario	-	5	-	-
	New Zealand	-	5	-	-
	USA - ACGIH	-	5	-	-
	USA - NIOSH	-	5	-	-
Diethyl phthalate	Japan - JSOH(2024–202 5)	-	5	-	-
	Permissible exposure standards for workers in the workplace	-	5	-	10

	Australia	-	5	-	-
	Canada - Ontario	-	5	-	-
	New Zealand	-	5	-	-
	USA - ACGIH	-	5	-	-
Diallyl phthalate	New Zealand	-	5	-	-
	Austria	-	5	-	-
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	Latvia	-	1	-	-
	United Kingdom	-	5	-	-
Diisobutyl phthalate	New Zealand	-	5	-	-
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	Latvia	-	1	-	-
	United Kingdom	-	5	-	-
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	-	-
Dicyclohexyl phthalate	New Zealand	-	5	-	-
	Austria	-	5	-	-
	Denmark	-	3	-	6
	Ireland	-	5	-	-
	United Kingdom	-	5	-	-
Bis(2-ethylhexyl) phthalate	Japan - JSOH(2024–202 5)	-	5	-	-
	Permissible	-	5	-	10

	exposure				
	standards for workers in the				
	workplace				
	Australia	_	5	_	10
	Australia	_	3	-	10
	Canada - Ontario	-	3	-	5
	New Zealand	-	5	-	10
	USA - ACGIH	-	0.1	-	-
Dioctyl phthalate	Austria	-	5	-	-
	Norway	-	3	-	-
	Romania	0.1	2	0.3	5
	Singapore	-	5	-	-
	Sweden	-	3	-	5
Dinonyl phthalate	New Zealand	-	5	-	-
	Austria	-	5	-	-
	Ireland	-	5	-	-
	Latvia	-	1	-	-

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| Engineering controls

1 Ensure adequate ventilation, especially in confined areas.

United Kingdom

- 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,	Clear, colorless liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-95 (N-hexane)
Initial boiling point and boiling	69 (N-hexane)

range(°C)	
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	3.9 (N-hexane)
coefficient	
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	In contact with an open flame may cause a fire or explosion.
reactions	
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidantss and halogen.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Dihexyl phthalate	29600mg/kg(Rat)	No information available	No information available
Dibutyl phthalate	7499mg/kg(Rat)	> 20900mg/kg(Rabbit)	No information available
Diphenyl phthalate	8000mg/kg(Rat)	No information available	No information available
Bis(2-ethylhexyl) phthalate	30000mg/kg(Rat)	25000mg/kg(Rabbit)	No information available
Dicyclohexyl phthalate	34400mg/kg(Rat)	No information available	No information available
Diisobutyl phthalate	15000mg/kg(Rat)	No information available	No information available
Diethyl phthalate	8600mg/kg(Rat)	No information available	No information available
Benzyl butyl phthalate	2330mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Dinonyl phthalate	21500mg/kg(Mouse)	No information available	No information available
Dimethyl phthalate	8200mg/kg(Rat)	> 23800mg/kg(Rabbit)	No information available
Diallyl phthalate	656mg/kg(Rat)	3300mg/kg(Rabbit)	No information available

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Bis(2-butoxyethyl) phthalate	8380mg/kg(Rat)	No information available	No information available
Dioctyl phthalate	47000mg/kg(Rat)	No information available	No information available
N-hexane	25000mg/kg(Rat)	No information available	169.188mg/L(Rat)
Bis(2-methoxyethyl) phthalate	3200mg/kg(Mouse)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
N-hexane	Not Listed	Not Listed	Not Listed
Dimethyl phthalate	Not Listed	Not Listed	Not Listed
Diethyl phthalate	Not Listed	Not Listed	Not Listed
Diallyl phthalate	Not Listed	Not Listed	Not Listed
Diisobutyl phthalate	Not Listed	Not Listed	Not Listed
Dibutyl phthalate	Not Listed	Not Listed	Not Listed
Bis(2-methoxyethyl) phthalate	Not Listed	Not Listed	Not Listed
BIS(4-METHYL-2-PENTYL) PHTHALATE	Not Listed	Not Listed	Not Listed
Bis(2-ethoxyethyl) phthalate	Not Listed	Not Listed	Not Listed
Dipentyl phthalate	Not Listed	Not Listed	Not Listed
Dihexyl phthalate	Not Listed	Not Listed	Not Listed
Benzyl butyl phthalate	Category 3	Not Listed	Not Listed
Bis(2-butoxyethyl) phthalate	Not Listed	Not Listed	Not Listed
Dicyclohexyl phthalate	Not Listed	Not Listed	Not Listed
Bis(2-ethylhexyl) phthalate	Category 2B	Category R	Not Listed
Diphenyl phthalate	Not Listed	Not Listed	Not Listed
Dioctyl phthalate	Not Listed	Not Listed	Not Listed
Dinonyl phthalate	Not Listed	Not Listed	Not Listed

Others

17 Mix phthalates in 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	May cause an allergic skin reaction(Category 1)	
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	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

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12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Dimethyl phthalate	LC ₅₀ : 39mg/L (96h)(Fish)	EC ₅₀ : 45.9mg/L ErC ₅₀ : 35.8mg/L	
		(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)
Bis(2-ethylhexyl)	LC ₅₀ : 75mg/L (96h)(Fish)	EC ₅₀ : >100mg/L	ErC ₅₀ : >100mg/L
phthalate		(48h)(Crustaceans)	(72h)(Algae)
Dicyclohexyl phthalate	LC ₅₀ : 2mg/L (96h)(Fish)	EC ₅₀ : >2.0mg/L	ErC ₅₀ : >2.0mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Diallyl phthalate	LC ₅₀ : 0.23mg/L	EC ₅₀ : 5.5mg/L	ErC ₅₀ : 4.5mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)
Diisobutyl phthalate	LC ₅₀ : 3.0mg/L (96h)(Fish)	EC ₅₀ : 6.7mg/L	ErC ₅₀ : 1.8mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Diethyl phthalate	LC ₅₀ : 12mg/L (96h)(Fish)	EC ₅₀ : 86mg/L	ErC ₅₀ : 45.2mg/L
		(48h)(Crustaceans)	(96h)(Algae)
Dioctyl phthalate	LC ₅₀ :>20mg/L (96h)(Fish)	EC ₅₀ : >0.00067mg/L	ErC ₅₀ : >20mg/L
		(48h)(Crustaceans)	(72h)(Algae)
N-hexane	LC ₅₀ : 57.8mg/L	No information available	No information available
	(96h)(Fish)		
Benzyl butyl phthalate	LC ₅₀ : >1.1mg/L	EC ₅₀ : 1.8mg/L	ErC ₅₀ : 0.11mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(96h)(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)
Dicyclohexyl phthalate	No information available	NOEC: 0.18mg/L(Crustaceans)	NOEC: 2.0mg/L(Algae)
Diallyl phthalate	No information available	NOEC : 4.3mg/L(Crustaceans)	NOEC: 2.4mg/L(Algae)
Diisobutyl phthalate	NOEC: 0.39mg/L(Fish)	NOEC : 0.27mg/L(Crustaceans)	NOEC: 0.37mg/L(Algae)
Dioctyl phthalate	No information available	NOEC: >0.00061mg/L(Cr ustaceans)	NOEC : 20mg/L(Algae)
Benzyl butyl phthalate	No information available	NOEC : 0.52mg/L(Crustaceans)	No information available

| Persistence and degradability

Component	mponent Persistence (water/soil) Persistence (air)	
N-hexane	Low	Low
Dimethyl phthalate	Low(Half-life = 14 days)	Low(Half-life = 46.58 days)

Diethyl phthalate	Media(Half-life = 112 days)	Low(Half-life = 8.83 days)
Diallyl phthalate	Low	Low
Diisobutyl phthalate	Low	Low
Bis(2-methoxyethyl) phthalate	Low	Low
Dipentyl phthalate	Low	Low
Dihexyl phthalate	Low	Low
Benzyl butyl phthalate	High(Half-life = 180 days)	Low(Half-life = 2.5 days)
Bis(2-butoxyethyl) phthalate	Low	Low
Dicyclohexyl phthalate	High	High
Bis(2-ethylhexyl) phthalate	High(Half-life = 389 days)	Low(Half-life = 1.21 days)
Dioctyl phthalate	High(Half-life = 365 days)	Low(Half-life = 1.87 days)
Dinonyl phthalate	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
N-hexane	Medium	Log Kow=3.9
Dimethyl phthalate	Low	BCF=57
Diethyl phthalate	Low	BCF=117
Diallyl phthalate	Low	Log Kow=3.23
Diisobutyl phthalate	Medium	BCF=780
Bis(2-methoxyethyl) phthalate	Low	Log Kow=1.1146
Dipentyl phthalate	High	Log Kow=5.62
Dihexyl phthalate	High	Log Kow=6.82
Benzyl butyl phthalate	Medium	BCF=663
Bis(2-butoxyethyl) phthalate	Medium	Log Kow=4.0612
Dicyclohexyl phthalate	High	Log Kow=5.6
Bis(2-ethylhexyl) phthalate	High	BCF=24500
Dioctyl phthalate	Low	Log Kow=8.1
Dinonyl phthalate	Low	Log Kow=9.521

| Mobility in soil

Component	log Koc	Remark
N-hexane	≥2.37 - ≤3.16	20 °C , pH=7.0
Dimethyl phthalate	1.569	
Diethyl phthalate	2.34	20 ℃

Diallyl phthalate	2.63	20 ℃
Diisobutyl phthalate	3.06	20 ℃
Dibutyl phthalate	3.14	
Bis(2-methoxyethyl) phthalate	1.000	
Dipentyl phthalate	3.696	
Dihexyl phthalate	4.228	
Benzyl butyl phthalate	3.971	
Bis(2-butoxyethyl) phthalate	2.231	
Dicyclohexyl phthalate	3.46	20 ℃
Bis(2-ethylhexyl) phthalate	5.219	

5.291

5.823

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13 Disposal considerations

| Disposal considerations

Dioctyl phthalate

Dinonyl phthalate

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.				

Transport information

| Label and Mark

Transporting Label



IMDG-CODE

UN number	1208
UN proper shipping name	HEXANES
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant (Yes or no)	Yes

IATA-DGR

UN number	1208
UN proper shipping name	HEXANES
Transport hazard class	3

Transport subsidiary hazard	None
class	
Packing group	п

UN-ADR

UN number	1208
UN proper shipping name	HEXANES
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

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

Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. 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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15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
N-hexane	√	√	V	√	√	√	√	√	V	√	√	√	√
Dimethyl phthalate	√	√	√	√	√	√	√	V	V	√	√	√	√
Diethyl phthalate	√												
Diallyl phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Diisobutyl phthalate	√	√	√	√	√	√	√	√	√	√	√	√	√
Dibutyl phthalate	√												
Bis(2-methoxyethyl) phthalate	√	1	V	V	×	×	×	V	√	×	×	√	√
BIS(4-METHYL-2-PENTYL) PHTHALATE	×	×	×	×	×	×	×	×	1	×	×	1	1

Bis(2-ethoxyethyl) phthalate	×	√	√	×	×	×	×	×	×	×	×	√	√
Dipentyl phthalate	√	√	√	√	√	×	√	×	×	×	×	√	√
Dihexyl phthalate	√	√	V	√	√	×	V	√	V	×	×	√	V
Benzyl butyl phthalate	√	√	√	√	√	√	√	√	V	√	√	√	√
Bis(2-butoxyethyl) phthalate	V	V	V	1	1	V	1	1	1	×	×	1	V
Dicyclohexyl phthalate	√	√	V	√	√	√	√						
Bis(2-ethylhexyl) phthalate	V	V	V	√	√	1	V	V	√	V	√	V	V
Diphenyl phthalate	×	√	√	×	×	×	√	√	√	×	×	√	√
Dioctyl phthalate	√	√	√	√	√	√	V	√	V	√	√	√	√
Dinonyl phthalate	√	√	√	√	√	×	√	√	V	×	×	√	V

- [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(NZloC)
- [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
N-hexane	×	×	×
Dimethyl phthalate	×	×	×
Diethyl phthalate	×	×	×
Diallyl phthalate	×	×	×
Diisobutyl phthalate	×	×	×
Dibutyl phthalate	×	×	×
Bis(2-methoxyethyl) phthalate	×	×	×
BIS(4-METHYL-2-PENTYL)PHTHALATE	×	×	×
Bis(2-ethoxyethyl) phthalate	×	×	×
Dipentyl phthalate	×	×	×
Dihexyl phthalate	×	×	×
Benzyl butyl phthalate	×	×	×
Bis(2-butoxyethyl) phthalate	×	×	×
Dicyclohexyl phthalate	×	×	×
Bis(2-ethylhexyl) phthalate	×	×	×

17 Mix phthalates in hexane

Diphenyl phthalate	×	×	×
Dioctyl phthalate	×	×	×
Dinonyl phthalate	×	×	×

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- [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
N-hexane	√	×	√	√	√	√	√	√
Dimethyl phthalate	√	V	√	√	√	√	√	×
Diethyl phthalate	×	×	V	V	V	√	√	×
Diallyl phthalate	×	×	×	√	×	√	×	×
Diisobutyl phthalate	×	×	×	×	×	×	×	×
Dibutyl phthalate	√	√	√	√	√	√	√	√
Bis(2-methoxyethyl) phthalate	×	×	×	×	×	×	×	×
BIS(4-METHYL-2-PENTY L)PHTHALATE	×	×	×	×	×	×	×	×
Bis(2-ethoxyethyl) phthalate	×	×	×	×	×	×	×	×
Dipentyl phthalate	×	×	×	×	×	×	×	×
Dihexyl phthalate	×	×	×	×	×	×	×	√
Benzyl butyl phthalate	×	×	√	√	√	√	√	√
Bis(2-butoxyethyl) phthalate	×	×	×	×	×	×	×	×
Dicyclohexyl phthalate	×	×	×	×	×	×	×	×
Bis(2-ethylhexyl) phthalate	V	×	√	√	√	V	√	√
Diphenyl phthalate	×	×	×	×	×	×	×	×
Dioctyl phthalate	×	√	√	√	√	√	√	×
Dinonyl phthalate	×	×	×	×	×	×	×	×

- [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	2025/10/10			
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		
IVIAC	Maximum Anowable Concentiation	IAINO	- · ·		
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.