

Product Name <u>Dibutyl Phthalate</u>

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Dibutyl phthalate

Synonyms: DBP; n-Butyl phthalate, Phthalic acid dibutyl ester

CAS-No: 84-74-2

EC-No.: 201-557-4

Molecular Formula: C₁₆H₂₂O₄

1.2. Relevant identified uses of the substance or mixture and uses advised against: Recommended Use:

1.3. Details of the supplier of the safety data sheet:

•	Company	Finar Limited
		184-186/P, Chacharwadi Vasna,
		Sarkhej-Bavla Highway,
		Ta.: Sanand, Dist.: Ahmedabad,
		Email: info@finarchemicals.com
		Web: www.finarchemicals.com
•	E-Mail Address	safety@finarchemicals.com; info@finarchemicals.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 2717 616 717
- Registered office No: +91 79 40040085



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SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008 Reproductive toxicity (Category 1B), H360FD Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 2), H411 For the full text of the H-Statements mentioned in this Section, see Section 16.
- **2.2.** Label Elements:

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H360FD May damage fertility. May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

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

Supplemental Hazard Statements

None

Restricted to professional users.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Dibutyl phthalate

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Dibutyl phthalate	84-74-2	201-557-4	<= 100 %

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

• If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

• If Contact with skin

Wash off with soap and plenty of water. Consult a physician.

• In case of eye contact

Flush eyes with water as a precaution.

• If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed: No information Available



SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Carbon oxides

Combustible.

5.3. Advice for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

5.4 Further Information:

No information Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2. Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4. **Reference to other sections:**

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Avoid exposure - obtain special instructions before use. Avoid inhalation of vapour or mist.

7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.



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7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Components with workplace control parameters

8.2. Exposure Controls:

Appropriate Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment:

Eye & Face Protection-

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- Hand Protection –

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact:

Glove material:	Nitrile Rubber
Glove thickness:	0.4 mm
Break through time:	480 min

Splash contact:

Glove material:	Nature latex/chloroprene
Glove thickness:	0.6 mm
Break through time:	120 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.



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- Body Protect	ion-

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- Respiratory Protection-

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- Environmental Exposure Controls-

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- Appearance: Clear
- Color: Colorless
- **Physical State:** Liquid
- Odor: ester like
- Odor Threshold: No data available
- **pH:** Neutral at 10 g/l 20 $^{\circ}$ C
- Melting Point: -35 °C
- Critical Temperature: No data available
- Vapor Pressure: ca. 97.000 hPa at ca.25 °C
- Vapor Density: 9.58
- Relative Density: 1.043 g/cm3 at 25 °C
- Specific Gravity / Density: 1.043 g/cm³
- Auto-Ignition Temperature: 390 °C
- **Decomposition Temperature:** No data available
- Volatility: No data available
- Bulk Density: No data available



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Produ	roduct Name <u>Dibutyl Phthalate</u>	
•	Viscosity: 1	8.8 mm2/s at 20 °C
٠	Viscosity, K	inematic: No data available
٠	Water/Oil D	Dist. Co eff.: No data available
•	Partition Co	o-efficient: n-octanol/Water: No data available
٠	Ionicity (in V	Water): No data available
٠	Lower Explo	osion Limit: 0.5% @ 235°C
٠	Upper Explo	osion Limit: 2.5%
٠	Boiling Poin	t/Range: 340 °C
٠	Flash Point:	157 °C
٠	Water Solub	bility: No information available
٠	Molecular V	Veight: 278.34
9.2.	Other inform	mation:
	Molecular F	Formula: C ₁₆ H ₂₂ O ₄
		SECTION 10: STABILITY AND REACTIVITY
10.1.	Reactivity:	
	No data avail	lable
10.2.	Chemical sta	ability:
	Stable under	recommended storage conditions.
10.3.	Possibility of	f hazardous reactions:
	No data avail	lable
10.4.	Conditions t	to avoid:
	No data avail	lable

10.5. Incompatible materials: Strong oxidizing agents, Nitrates, Bases, acids, Chlorine

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral toxicity

LD50 Oral - Rat - male and female - 6.279 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - >= 15,68 mg/l Remarks: (ECHA) LD50 Dermal - Rabbit - > 21.000 mg/kg Remarks: (RTECS) Acute inhalation toxicity No data available Acute dermal toxicity No data available **Skin irritation** Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Eye irritation Eyes - Rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405) Respiratory or skin sensitisation Maximisation Test - Guinea pig Result: negative (OECD Test Guideline 406) Germ cell mutagenicity Ames test S. typhimurium Result: negative (ECHA) Mouse



	uct Name Dibutyl Phthalate
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	Result: negative
	(ECHA)
	Carcinogenicity
	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
	probable, possible or confirmed human carcinogen by IARC.
	Reproductive toxicity
	May damage the unborn child.
	May damage fertility.
	Teratogenicity
	No data available
	Specific target organ toxicity - single exposure
	No data available
	Specific target organ toxicity - repeated exposure
	No data available
	Aspiration hazard
	No data available
11.2	Further Information:
	Repeated dose toxicity - Rat - male and female - Oral - 90 d - No observed adverse effect
	level - 152 mg/kg - Lowest observed adverse effect level - 752 mg/kg
	Subchronic toxicity
	RTECS: TI0875000
	Nausea, Dizziness, Headache
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been
	thoroughly investigated.
	SECTION 12: ECOLOGICAL INFORMATION
12.1.	Toxicity:
	Toxicity to fish
	Static test LC50 - Lepomis macrochirus (Bluegill sunfish) - ca. 0.48 mg/l - 96 h
	(OECD Test Guideline 203)

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 - Daphnia magna (Water flea) - ca. 2.99 mg/l - 48 h



Prod	uct Name	Dibutyl Phthalate	
	(US-EPA)		
	Toxicity to alg	ae	
	Static test EC	50 - Pseudokirchneriella subcapitata (green algae) -0.75 mg/l - 10 d	
	(US-EPA)		
	. ,	DEC - Pseudokirchneriella subcapitata (green algae) -0.39 mg/l - 10 d	
	(US-EPA)		
	Toxicity to ba	ncteria	
	EC50 - Tetrah	ymena pyriformis – 2.2 mg/l - 24 h	
	Remarks: (EC	HA)	
12.2	Persistence ar	nd degradability:	
	Biodegradabili	ity Result: 81 % - Readily biodegradable.	
		(Regulation (EC) No. 440/2008, Annex, C.4-C)	
12.3	Bioaccumulat	te potential:	
	Bioaccumulat	tion Pimephales promelas (fathead minnow) - 11 d	
		- 0,0348 mg/l (Dibutyl phthalate)	
		Bioconcentration factor (BCF): 2.165	
		Remarks: Does not bioaccumulate.	
12.4	Mobility in so	bil:	
	No data availa	ble	
12.5	Results of PBT and vPvB assessment:		
	This substance	e/mixture contains no components considered to be either persistent,	
	bioaccumulat	tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at	
	levels of 0.1%	% or higher.	
12.6	Other advers	se effects:	
	Very toxic to aquatic life.		
	Discharge into	o the environment must be avoided.	



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SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number		UN 3082	<u> </u>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dibutyl phthalate).		
14.3 Class	9		
14.4 Packing group	III		
14.5 Environmentally hazardous		Yes	
14.6 Special precautions for user		-	
14.7 Transport in bulk according to	Annex II of MARPOL 7	3/78 and the IBC Co	ode
Not Relevant			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Authorisations and/or restrictions on use REACH - Candidate List of Substances of Very : Dibutyl phthalate High Concern for Authorisation (Article 59). This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.



Product Name		Dibutyl Phthalate
	REACH - R	estrictions on the manufacture, : Dibutyl phthalate
	placing on t	he market and use of certain dangerous substances, preparations and articles
	(Annex XVI	I)
15.2	Chemical s	afety assessment:
	For this pro	duct a chemical safety assessment was not carried out.
	Full text of	SECTION 16: Other information H-Statements referred to under sections 2 and 3.
	H360FD	May damage fertility. May damage the unborn child.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.
	Relevant cl	nanges since previous version
	2. Hazards i	dentification
	Relevant ch	anges since previous version
	7. Handling	and storage
<u>Refere</u>	nces: Not a	wailable
<u>Created</u> Disclair	_	020

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