

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION*Identification of the product*

Catalogue No. :

Product name : Di-butyl phthalate (DBP)

Manufacturer/supplier identification

Company: Petrochemicals 1st Div, Nan Ya Plastics Corporation .Taiwan,R.O.C

Tel: (886)5-6818477~78 ; Fax:(886)5-6812687

Emergency telephone No.: (886)5-6818477~78

2. Hazards identification**GHS-Labeling***Hazard pictograms*

Signal Word

Danger

Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients*Synonyms*

Phthalic acid dibutyl ester

CAS-No.: 84-74-2

Molar mass: 278.35

EC-No.: 201-557-4

Molecular formula: C₁₆H₂₂O₄**4. First aid measures**

After inhalation : fresh air. Consult doctor if feeling unwell.

After skin contact : wash off with plenty of water. Remove contaminated clothing.

After eye contact : rinse out with plenty of water with the eyelid held wide open.

After swallowing : make victim drink plenty of water, induce vomiting summon doctor.

5. Fire-fighting measures

Suitable extinguishing media :

Water, CO₂, foam, powder.

Special risks :

Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.

Special protective equipment for fire fighting :

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information :

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Procedures for cleaning/absorption :

Take up with liquid-absorbent material forward for disposal. Clean up affected area.

Environmental-protection measures :

Do not allow to enter waters, waste water, or soil !

NPC Material Safety Data Sheet

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7. Handling and storage

Handling :

No further requirements.

Storage :

Tightly closed. In a well-ventilated place. At +15°C to +25°C.

8. Exposure controls/personal protection

Personal protective equipment :

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection : required when vapors/aerosols are generated.

Eye protection : required

Hand protection : required

Other protective equipment : Suitable protective clothing.

Industrial hygiene :

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form : liquid

Color : colorless to yellowish

Odor : characteristic

PH value not available

Melting point -35°C

Boiling point ~ 340 °C

Ignition temperature ~ 402 °C

Flash point 157 °C

Explosion limits 0.5%

Vapor Pressure : 1.0×10^{-5} ~ 1.4×10^{-5} mmHg(25°C)

Vapor Density : 9.58

Density (20°C) 1.047

Solubility in water (25°C) 13mg/L

Log P(oct) : 4.6 – 4.9

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10. Stability and reactivity

Conditions to be avoided

none

Substances to be avoided

strong oxidizing agents.

Hazardous decomposition products

none

11. Toxicological information

Acute toxicity

LD₅₀ (oral, rat) : 8000mg/kg.

Substances to chronic toxicity

The possibility of an embryo-toxic effect has not yet been fully assessed. Animal experiments suggest that the substance may lead to an impairment of reproductive performance also in man.

Further toxicological information

After swallowing : nausea, vomiting.

After uptake of large quantities : hallucinations.

12. Ecological information

Behavior in environmental compartments :

Distribution : log P(oct) : 4.6-4.9

Eco-toxic effects :

Toxic for aquatic organisms.

Fish toxicity : Daphnia magna EC₅₀ : ~3mg/l/48/h

Daphnia toxicity : L.macrochirus LC₅₀ : 0.85 mg/l/96 h.

Further ecologic data :

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product :

There are no uniform regulations for the disposal of chemicals residues. Chemical residues generally count as special waste. We recommend that you contact either the authorities in charge or approved waste disposal companies which advise you on how to dispose of special waste.

Packaging :

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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14. Transport information

The transport regulations are cite according to international regulations and possible national deviations in other countries are not considered.

15. Regulatory information

Labelling according to EC Directives

Symbol :	Xn	Harmful
	N	Dangerous for the environment
R-phrases :	62-63-50/53	Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases :	36/37-61	Wear suitable protective clothing and gloves. Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.