

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product

Catalogue No.:

Product name : Di(2-Propylheptyl) Phthalate (DPHP)

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

Clear Liquid; slight odor

Harmful skin contact

Skin Contact: Remove contaminated clothing.

Washing water and soap in affected areas.

Eyes Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids separately at the same time.

Ingestion: If you swallow, take medical attention immediately.

Inhalation: Move the patient to fresh air,Respirators and drugs are available when needed,Let the patient warm and comfortable.

3. Composition/information on ingredients

Synonyms

bis(2-propylheptyl) phthalate

CAS-No.: 53306-54-0

4. First aid measures

Skin Contact: Remove contaminated clothing.

Washing water and soap in affected areas.

Eyes Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids separately at the same time.

Ingestion: If you swallow, take medical attention immediately.

Inhalation: Move the patient to fresh air,Respirators and drugs are available when needed,Let the patient warm and comfortable.

Notes to Physician : Treat symptomatically.

Hazards: No data available.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

carbon dioxide, dry powder, water spray, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

The product is combustible. Cool endangered containers with water-spray.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

Do not empty into drains.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Avoid aerosol formation.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Segregate from strong oxidizing agents.

Further information on storage conditions: Keep container tightly closed.

8. Exposure controls/personal protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a certified (or equivalent) organic vapour/particulate respirator as needed. When processing in open systems with aerosol formation wear suitable respiratory protection to avoid inhalation of aerosol particles.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of mists. Avoid contact with the skin, eyes and clothing.

9. Physical and chemical properties

Form:	clear liquid
Odour:	slight odor
Colour:	colourless
PH value:	~6
Pour point:	No data available.
Melting point:	-48 °C
Boiling range:	251 ~ 254 °C (7 mbar)
Flash point:	220 °C , closed cup
Flammability:	No data available.
Autoignition:	345 °C

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Vapour pressure: < 0.00001 mbar(50 °C)

Density: 0.960-0.970g/cm³ (20°C)

Partitioning coefficient n-octanol/water (log Pow): >6

Solubility in water:

< 0.1 µg/l (25 °C)

10. Stability and reactivity

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (other)

Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 20.5 mg/l (other)

Exposure time: 1 h

An aerosol was tested.

Dermal

Type of value: LD50

Species: rabbit (male/female)

Value: > 2,000 mg/kg (other)

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

12. Ecological information

Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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Toxicity to fish

LC50 (96 h) > 10,000 mg/l

Aquatic plants

EC50 (72 h) > 100 mg/l (growth rate)

Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Bioconcentration factor: < 14.4 (56 d)

Mobility in soil

Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Disposal considerations

Waste disposal of substance:

Dispose of in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in accordance with national and current local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Not hazardous;

State regulations

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Chemical name: bis(2-propylheptyl) phthalate

NFPA Hazard codes:

Health : 1

Fire: 1

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Reactivity: 0

HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

Assessment of the hazard classes according to UN GHS criteria (most recent version):

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.