

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Identification of the product	
Product name : Bis(2-ethylhexyl) terephthalate (DOTP)	
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	
Hazard summary	Physical hazards Not classified as hazardous.
Health hazards	Inhalation None known.
Eye contact	None known.
Skin contact	None known.
Ingestion	None known.
Other Health Effects	No data available.
Environmental hazards	None known.
3. Composition/information on ingredients	
Chemical name	Dioctylterephthalate Di(2-ethylhexyl)terephthalate 1,4-benzenedicarboxylic acid bis(2-ethylhexyl) ester
CAS-No.:	6422-86-2
Reach No.:	01-2119446265-39-0017
Molar mass:	390.56
Molecular formula:	C ₂₄ H ₃₈ O ₄
4. First aid measures	
Inhalation:	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
Eye Contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Skin Contact:	Wash with soap and water. Get medical attention if symptoms occur.
Ingestion:	Seek medical advice.
5. Fire-fighting measures	
General fire hazards:	None known.
Extinguishing media	Suitable extinguishing media: Water spray. Dry chemical. Foam. Carbon Dioxide.
Unsuitable extinguishing media:	None known.
Special hazards arising from the substance:	None known.
Advice for firefighters	Special Fire Fighting Procedures: None known.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment.
Environmental precautions:	Avoid release to the environment.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

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7. Handling and storage

Precautions for safe handling: No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

Conditions for safe storage, including any incompatibilities: Keep container closed.

Specific end use(s): Plasticizer Additive

8. Exposure controls/personal protection

Occupational exposure limits
If exposure limits have not been established, maintain airborne levels to an acceptable level.

General information: Eye bath. Washing facilities.

Eye/face protection: It is a good industrial hygiene practice to minimize eye contact.

Skin protection

Hand protection: It is a good industrial hygiene practice to minimize skin contact.

Other: No data available.

Environmental Controls: No data available.

9. Physical and chemical properties

Appearance

Physical State: Liquid

Form: Liquid

Color: Colorless

Odor: Mild

Odor Threshold: No data available.

pH: No data available.

Freezing Point: No data available.

Boiling Point: 375°C

Flash Point: 212°C (Setaflash Closed Cup)

Evaporation Rate: No data available.

Flammability (solid, gas): Not applicable

Flammability Limit - Upper (%)±: No data available.

Flammability Limit - Lower (%)±: No data available.

Vapor pressure: < 0.00001 hpa

Vapor density (air=1): No data available.

Specific Gravity: 0.982

Solubility(ies)

Solubility in Water: No data available.

Solubility (other): No data available.

Partition coefficient (n-octanol/water): log Pow: 8.39

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: 66.9 mm²/s (25 °C)

Explosive properties: Not classified

Oxidizing properties: Not classified

10. Stability and reactivity

Reactivity: None known.

Chemical stability: Stable

Possibility of hazardous reactions: None known.

Conditions to avoid: None at ambient temperatures.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon Monoxide. Carbon Dioxide.

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11. Toxicological information	
Information on likely routes of exposure	
Inhalation: None known.	
Ingestion: None known.	
Skin contact: None known.	
Eye contact: None known.	
Acute toxicity	
LD ₅₀ (oral, rat) : > 5,000 mg/kg (highest dose tested)	
LD ₅₀ (dermal, guinea pig) : > 19,680 mg/kg (highest dose tested)	
12. Ecological information	
<u>Toxicity to fish</u>	
LC50 (7 d) > 25 mg/l, Salmo gairdneri, syn. O. mykiss (other, Flow through.)	
LC50 (96 h) > 984 mg/l, Pimephales promelas (OECD Guideline 203, static)	
Aquatic invertebrates	
EC50 (48 h) > 1.4 mg /L, Daphnia magna (OECD Guideline 202, part 1, static)	
EC50 (96 h) > 624 ug/L, Crassostrea virginica (other, Flow through.)	
Aquatic plants	
EC50 (72 h) > 86 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)	
Chronic toxicity to fish	
No observed effect concentration (60 d) > 2.8 mg/l, Oncorhynchus mykiss (other, Flow through.)	
Chronic toxicity to aquatic invertebrates	
No observed effect concentration (21 d) > 7.6 mg/l, Daphnia magna (OECD Guideline 211, Flow through.)	
13. Disposal considerations	
General information: No data available.	
Disposal Methods: Dispose of waste and residues in accordance with local authority requirements. Incinerate.	
14. Transport information	
Land transport	
TDG	Not classified as a dangerous good under transport regulations
Sea transport	
IMDG	Not classified as a dangerous good under transport regulations
AIR TRANSPORT	
IATA	Not classified as a dangerous good under transport regulations
15. Regulatory information	
TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.	
DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.	
AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.	
MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.	
ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.	
Philippines Inventory (PICCS) : This product is listed on the Philippine Inventory or otherwise complies with PICCS.	
Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).	
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.