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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Dioctyl Terephthalate (DOTP)	**Revision date:** 2026-10-27	**Version:** 1.0	**Brand:** Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Dioctyl Terephthalate (DOTP)
Synonyms	Bis(2-ethylhexyl) terephthalate
CAS No.	6422-86-2
EC No.	229-176-9
Molecular formula	C24H38O4
Molecular weight	390.56 g/mol
Relevant identified uses	Plasticizer for PVC and other resins; cable materials; synthetic rubber; coatings and adhesives
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 (Not classified)
Pictogram(s)	None
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	None

Other hazards	None

SECTION 3: Composition/information on ingredients

Component	Dioctyl terephthalate
CAS No.	6422-86-2
EC No.	229-176-9
Classification	Not classified
Concentration (%)	≤100 %

SECTION 4: First aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash off with soap and plenty of water.
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.
Most important symptoms and effects	May cause irritation
Indication of any immediate medical attention	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None
Special hazards arising from the chemical	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid breathing vapors. Ensure adequate ventilation. Wear suitable protective equipment.

Environmental precautions	Prevent further leakage or spillage. Do not let product enter drains.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (sand, vermiculite) and dispose of in accordance with local regulations.

SECTION 7: Handling and storage

Precautions for safe handling	Provide appropriate exhaust ventilation. Avoid contact with skin and eyes.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry and well-ventilated place in tightly closed containers. Storage period: one year.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	No occupational exposure limits established
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Ensure adequate ventilation. Eye wash stations and safety showers recommended.
Eye/face protection	Safety glasses.
Skin protection	Chemical-resistant gloves.
Body protection	Impervious work clothing.
Respiratory protection	Not required under normal conditions; wear suitable respirator when vapor/mist is generated.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Transparent oily liquid
Colour	Colorless
Odour	Slight, characteristic
Melting point / freezing point	-48 °C
Boiling point or initial boiling point and boiling range	400 °C
Flammability	Not classified as flammable
Lower and upper explosion limit / flammability limit	No data available

Flash point	≥210 °C
Auto-ignition temperature	387 °C
Decomposition temperature	No decomposition if stored and handled as prescribed.
pH	Not applicable (insoluble in water)
Kinematic viscosity	63 cP (dynamic) at 25 °C
Solubility	Insoluble in water; soluble in ethanol, ether and other organic solvents
Partition coefficient n-octanol/water	log Kow 8.39 (estimated)
Vapour pressure	2.14E-5 mmHg at 25 °C (estimated)
Density and/or relative density	0.981 - 0.985 g/cm3 (20 °C)
Relative vapour density	13.5 (air = 1)
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

Reactivity	Stable under normal conditions
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known under normal use
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	Inhalation (mouse, 4 h, saturated vapour): no deaths; mucosal irritation, loss of coordination noted, recovery within 24 h
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified (based on available data)
Germ cell mutagenicity	Not classified (based on available data)
Carcinogenicity	Not classified (based on available data)
Reproductive toxicity	Not classified (based on available data)

STOT - single exposure	Not classified (based on available data)
STOT - repeated exposure	Not classified (based on available data)
Aspiration hazard	Not classified (based on available data)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	No toxicity at the limit of water solubility
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Estimated BCF 25 in fish; low bioconcentration potential
Mobility in soil	Estimated Koc 2,000; expected slight mobility in soil
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Dispose of in accordance with local regulations. Do not discharge into drains.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated as dangerous goods
Transport hazard class(es)	Not regulated as dangerous goods
Packing group	Not regulated as dangerous goods
Environmental hazards (Marine pollutant)	No
Special precautions for user	No special precautions required during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS (EU): Listed (229-176-9); TSCA (USA): Listed; IECSC (China): Listed

SECTION 16: Other information

Full text of H-Statements	None
Revision date	2026-10-27
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.