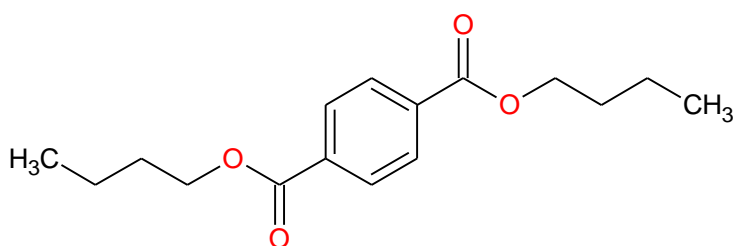


1. PRODUCT NAME

- a/ trade name
- in Polish Oxofine™ DBT
 - in English Oxofine™ DBT
- b/ chemical name
- in Polish Tereftalan di(n-butylu)
 - in English Dibutyl terephthalate
- c/ proper shipping name not applicable (not regulated by RID/ADR)
- d/ chemical formula
- molecular formula $C_{16}H_{22}O_4$
 - semi-structural formula $C_6H_4(COOC_4H_9)_2$

- structural formula



- e/ PKWiU: 20.14.34.0
- f/ CN: 2917 39 95

2. QUALITY REQUIREMENTS

2.1. General requirements

Oxofine™ DBT is an oily liquid, colourless or light straw, with no mechanical impurities.

2.2. Physical-chemical properties

Item	Specification	Value	Unit	Test method	Foreign equivalent
1	Colour	max. 30	[Pt-Co]	PN-C-04534-01:1981 PN-EN ISO 6271:2016-01	ISO 2211 ISO 6271
2	Flash point	min. 190	[°C]	PN-EN ISO 2592:2017-10	ISO 2592
3	Esters content	min. 99.0	[wt %]	Internal method of Grupa Azoty ZAK S.A. (GC, sum of % by area)	GC (sum of % by area)
5	Density at 20°C	min. 1.043 max. 1.046	[g/cm ³]	PN-EN ISO 12185:2002	ISO 12185
6	Free acids as phthalic acid	max. 0.1	[wt %]	PN-C-89401:1988	ASTM 1045-14
7	Water content	max. 0.1	[wt %]	PN-EN ISO 12937:2005 PN-ISO 6296:2011	ISO 12937 ISO 6296

3. APPLICATION(s)

Oxofine™ DBT is used as a plasticiser in the processing of plastics.

4. STORAGE STABILITY

Oxofine™ DBT is chemically stable. When the storage and transport conditions as per sections 7 and 8 are observed, the product will maintain its quality parameters as per section 2 above over the period of 6 months from the date of loading.

5. QUALITY DOCUMENT

Unless the client's order (or contract) demands otherwise, each shipment of the product shall be provided with the quality certificate to evidence that the product quality parameters satisfy the requirements listed in this Specification.

At temperatures below 20°C, crystallization of the product may occur. Crystallization and subsequent melting does not affect the quality of the product, but can lead to damage to the packaging or means of transport.

6. PACKING

6.1. General requirements

Oxofine™ DBT is loaded into steel rail tankers, tank containers and road tankers. It is necessary to ensure the temperature of the product during transport above 20°C.

Other types of containers are also allowable if they protect the product sufficiently to maintain its quality and if they provide safety in transport, storage, handling and use. In that case, the client should:

- Submit the valid certificate which permits the use of that type of containers in storage and transport, or his own statement in writing on the subject.
- Place marking on the containers, in accordance with applicable regulations.

6.2. Labelling applicable for client's unit containers

a/ According to Regulation (EC) № 1272/2008:

- Not applicable - Oxofine™ DBT /dibutyl terephthalate/ is not classified as dangerous by CLP/GHS regulations.

b/ According to RID/ADR:

- Not applicable - Oxofine™ DBT /dibutyl terephthalate/ is not classified as dangerous by RID/ADR.

c/ Inscription

- "Spent packages must be transferred to an authorised waste collecting company."

d/ Additional labelling required by national/local legislation

7. STORAGE

7.1. Requirements for warehouses

- Local exhaust ventilation systems, to eliminate vapours from the places of their emission, and general ventilation systems in rooms.
- Protection against accumulation of static electricity - ignition of organic vapours may be initiated by any static discharge.
- Liquid-impervious floors which make it possible to collect the spilled material and prevent its entry to the sewage system.
- The storage rooms should be cool and dry.

7.2. Storage conditions

- Keep away from ignition sources - No smoking.
- Keep container tightly closed, in cool and well ventilated places.
- Handle and open containers with care.
- Containers and tanks must be properly marked.
- Containers and tanks must be made of the materials which are resistant to the product attack.
- Hand-operated/portable fire-fighting equipment should be available in storage rooms.
- Ensure a minimum storage temperature of 20°C

7.3. Recommendations for occupational hygiene

- Avoid any direct contact with skin, eyes and clothing.
- Wash hands after handling the product.

7.4. Recommendations for joint storage

- Incompatible substances: oxidisers

8. TRANSPORT

8.1. General requirements

Oxofine™ DBT /dibutyl terephthalate/ should be transported in rail tankers, in road tankers, in tank-containers, in flexitanks. The rail tankers, road tankers, tank-containers must be leak-proof, technically serviceable and clean (they need to have valid washing/cleaning certificates).

Client's unit containers which meet the requirements as per Section 6.

Unit containers should be transported by covered means of transport.

Oxofine™ DBT may not be transported together with strong oxidisers and alkalis.

The product is not a dangerous goods in accordance with RID/ADR.

8.2. Labelling applicable for means of transport as per RID/ADR

Not applicable -Oxofine™ DBT /dibutyl terephthalate/ is not classified as dangerous by RID/ADR.

9. OTHER INFORMATION

In place of: PM-025-01-1.3 „Oxovilen®. Specification”