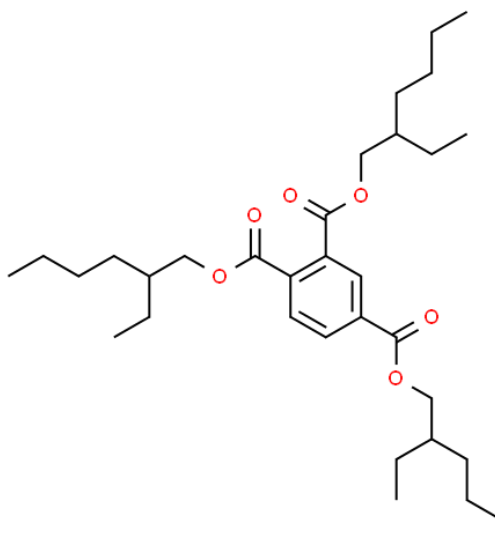


1. PRODUCT NAME

a/ Trade name	
– in English:	Oxofine TOTM
b/ Chemical name	
– In English:	Tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate
c/ Proper shipping name	Not applicable (not subject to RID/ADR)
d/ Chemical formula	
– summary	$C_{33}H_{54}O_6$
– semi-structural	$C_6H_3(COOC_8H_{17})_3$

– structural



e/ PKWiU	20.14.34.0
f/ CN	2917 39 95

2. QUALITY REQUIREMENTS

2.1. General requirements

Oxofine is an oily liquid with a characteristic mild ester odour, free from solid impurities.

2.2. Physical and chemical requirements

Item	Parameter	Value	Unit	Test method	Foreign equivalent	
1	Colour	no more than	100	Pt-Co	ISO 2211 ISO 6271	
2	Flash point	no less than	240	°C	PN-EN-ISO 2592:2017-10	ISO 2592
3	Water	no more than	0.1	[% m/m]	PN-ISO 760:2001 PN-EN ISO 12937: 2005	ISO 760 EN ISO 12937
4	Tris(2-ethylhexyl) trimellitate content	no less than	96.0	%	Own method Grupa Azoty ZAK S.A. (GC; % surface area)	GC (% by area)
5	Density in 20° C	no less than no more than	0.985 0.990	g/cm ³	PN-EN ISO 12185:2002	ISO 12185
6	Acid value	no more than	0.5	mg KOH/g	PN-C-89401:1988 ASTM D1045 - 14	ASTM D1045 - 14

Item	Parameter	Value	Unit	Test method	Foreign equivalent
7	Volatile organic compounds (VOCs) no more than	0.2	[% m/m]	PN-EN ISO 11890-2:2020-12	ISO 11890-2:2020

3. APPLICATION(s)

Oxofine TOTM is a plasticiser used in the processing of plastics.

4. STORAGE STABILITY

Oxofine TOTM is chemically stable. With storage and transport conditions in accordance with p. 7 and p. 8, the quality requirements according to p. 2 are maintained for a period of 6 months from the date of loading.

5. QUALITY DOCUMENT

Each exported batch of Oxofine TOTM shall be accompanied with a quality certificate stating the conformity of the product quality parameters with the requirements of the product specifications, unless otherwise stated in the customer contract.

6. PACKING

6.1. General requirements

Oxofine TOTM is loaded into tanker trucks and into so-called flexitanks.

Other types of packaging are permitted to ensure that the product quality requirements are maintained and that it is safe to transport, store and use. In this case the recipient should:

- Submit the valid certificate which permits the use of that type of containers in storage and transport, in accordance with RID/ADR.
- Place marking on the containers, in accordance with applicable regulations.

6.2. Labelling applicable for client's unit containers

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

- not applicable

b/ according to RID/ADR regulations

- not applicable

c/ inscription:

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

d/ additional markings required by national/local regulations

7. STORAGE

7.1. Requirements for warehouses

- Local exhaust ventilation, removing vapours from emission points, and general ventilation of rooms.
- Protection against static electricity - discharge can ignite organic vapours.
- A sprinkler system that allows tanks/containers to be cooled by dispersed water jets in the event of a fire.
- An impermeable floor, allowing spillages to be picked up and preventing them from entering the sewerage system.
- The room should be cool and dry.

7.2. Storage conditions

- Keep away from sources of ignition - No smoking.
- Keep containers tightly closed in a cool, well-ventilated place.
- Store and open container with care.
- Containers and tanks must be properly labelled.
- Tanks and containers must be made of plasticiser-resistant materials.
- The room should be equipped with handy fire-fighting equipment.
- Store above 0 °C.

7.3. Recommendations on occupational hygiene

- Avoid contact with skin, eyes and clothing.
- Wash hands after handling.
- Wear protective clothing.

7.4. Recommendations for joint storage

- Incompatible substances: Strongly oxidising agents.

8. TRANSPORT

8.1. General requirements

The recipient's pre-packaging must meet the requirements as in point 6.

Pre-packaged containers containing the product should be transported by covered means of transport.

This product is not a hazardous material according to RID/ADR.

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

Not applicable.

9. OTHER INFORMATION

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10. RELATED DOCUMENTS

Safety data sheet	PM-029-02 „Oxofine TOTM. Material Safety Data Sheet*
PN-C-04534-01:1981	Chemical analysis - Determination of colour of chemical products using the Hazen scale (platinum-cobalt scale)
PN-EN ISO 6271:2016-01	Clear liquids – Estimation of colour by the platinum-cobalt colour scale
PN-EN ISO 2592:2017-10	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method
PN-EN ISO 12937:2005	Petroleum products – Determination of water – Coulometric Karl Fischer titration method.
PN-ISO 760:2001	Determination of water; Karl Fischer method (General method)
PN-EN ISO 12185:2002	Crude petroleum and petroleum products – Determination of density – Oscillating U-tube method.
PN-C-89401:1988	Plasticisers - Test methods
ASTM D1045 - 14	Standard Test Methods for Sampling and Testing Plasticizers Used in Plastics
PN-EN ISO 11890-2:2020-12	Paints and varnishes – Determination of volatile organic compounds(VOC) and/or semi volatile organic compounds (SVOC) content – Part 2: Gas-chromatographic method

11. IN PLACE OF

Not applicable.