Richest Group
No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Tel: 0086 21 5017 5386
E-mail: inquiry@richest-group.com
Web: www.richest-group.com

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Trioctyl Trimellitate (TOTM)	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

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

Product name	Trioctyl Trimellitate (TOTM)
Synonyms	Tris(2-ethylhexyl) trimellitate; TOTM
CAS No.	3319-31-1
EC No.	222-020-0
Molecular formula	C33H54O6
Molecular weight	546.78 g/mol
Relevant identified uses	Plasticizer for PVC and other resins (heat-resistant wire and cable, automotive interior materials)
Uses advised against	None
Company	Richest Group Ltd.
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	+86 21 5017 5386
WhatsApp	+86 13472638548
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	+86 13472638548

SECTION 2: Hazards identification

GHS Classification	Not classified as hazardous according to Regulation (EC) No 1272/2008
Pictogram(s)	None
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	None
Other hazards	None known.

SECTION 3: Composition/information on ingredients	
Component	Trioctyl trimellitate
CAS No.	3319-31-1
EC No.	222-020-0
Classification	Not classified
Concentration (%)	≤100 %

SECTION 4: First aid measures	
If inhaled	Move to fresh air. Get medical attention if symptoms occur.
In case of skin contact	Remove contaminated clothing. Wash skin with soap and plenty of water. Get medical attention if irritation develops.
In case of eye contact	Rinse cautiously with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
If swallowed	Rinse mouth with water. Do NOT induce vomiting. Get medical attention if feeling unwell.
Most important symptoms and effects	No specific symptoms known; may cause mild irritation of eyes and skin on prolonged contact.
Indication of any immediate medical attention	Treat symptomatically. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures	
Suitable extinguishing media	Water spray, dry chemical, carbon dioxide (CO2), alcohol-resistant foam.
Unsuitable extinguishing media	None.
Special hazards arising from the chemical	Combustion may produce carbon oxides and irritating fumes.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing. Cool containers with water spray.

SECTION 6: Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. Ensure adequate ventilation. Wear suitable personal protective equipment (see Section 8).

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses.
Methods and materials for containment and cleaning up	Absorb spillage with inert material (e.g. sand, earth, vermiculite) and collect into suitable containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Ensure adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cool, dry and well-ventilated place. Keep away from heat and strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	None established (no occupational exposure limit values known)
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Ensure adequate ventilation. Provide eyewash station and safety shower.
Eye/face protection	Wear safety glasses with side shields.
Skin protection	Wear suitable protective gloves (e.g. nitrile rubber).
Body protection	Wear suitable protective clothing.
Respiratory protection	Not required under normal use; use a suitable respirator if vapours or mists are generated.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Oily liquid
Colour	Colorless to pale yellow
Odour	Slight characteristic odour
Melting point / freezing point	Pour point: ca. -45 °C
Boiling point or initial boiling point and boiling range	ca. 283 °C at 6.7 hPa; decomposes before boiling at 1,013 hPa
Flammability	Combustible (high flash point)
Lower and upper explosion limit / flammability limit	Not applicable (negligible vapour pressure at ambient temperature)

Flash point	≥240 °C
Auto-ignition temperature	410 °C
Decomposition temperature	No data available
pH	Not applicable (insoluble in water)
Kinematic viscosity	ca. 200-300 mm2/s at 20 °C (dynamic: ca. 200-300 mPa·s)
Solubility	Insoluble in water (< 0.1 mg/l); soluble in common organic solvents
Partition coefficient n-octanol/water	log Pow: > 10 (estimated; not measurable owing to very low water solubility)
Vapour pressure	< 0.001 hPa at 20 °C (estimated)
Density and/or relative density	0.984-0.991 g/cm3 at 20 °C
Relative vapour density	> 1 (Air = 1.0)
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - > 3,200 mg/kg (practically non-toxic) LD50 Dermal - Guinea pig - > 20 ml/kg Inhalation: not relevant (negligible vapour pressure)
Skin corrosion/irritation	Skin - Rabbit - No skin irritation
Serious eye damage/irritation	Eyes - Rabbit - No eye irritation
Respiratory or skin sensitization	Not a skin sensitizer (guinea pig)
Germ cell mutagenicity	Negative in Ames test; not classified
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen by IARC, NTP or OSHA
Reproductive toxicity	No adverse effects observed in available screening studies; not classified

STOT - single exposure	Not classified
STOT - repeated exposure	No significant findings in repeated-dose studies at relevant doses; not classified
Aspiration hazard	Not classified (viscous liquid)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	No acute aquatic toxicity observed at the limit of water solubility (LC50/EC50 > water solubility, < 0.1 mg/l); effects at saturation are not expected
Persistence and degradability	Not readily biodegradable; inherently biodegradable (ester bonds hydrolyzable)
Bioaccumulative potential	High log Pow (> 10), but the large molecular size (MW 546.78) limits uptake; bioaccumulation potential is low
Mobility in soil	Strong adsorption to soil and sediment expected; low mobility
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Dispose of in accordance with local, regional and national regulations. Do not discharge into drains or the environment.
Contaminated packaging	Empty containers should be disposed of in accordance with applicable regulations; offer for recycling if possible.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not applicable
Transport hazard class(es)	None
Packing group	None
Environmental hazards (Marine pollutant)	No
Special precautions for user	No special precautions required during transport.

SECTION 15: Regulatory information

Safety, health and environmental	EINECS: Listed (222-020-0) / TSCA: Listed / IECSC: Listed / China Catalog

regulations specific for the product	of Hazardous Chemicals 2015: Not listed

SECTION 16: Other information

Full text of H-Statements	None (not classified as hazardous)
Revision date	2026-10-29
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.