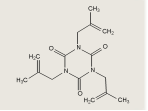
Product information

TAICROS® M

Trimethallyl isocyanurate

$C_{15}H_{21}N_3O_3$



GENERAL INFORMATION

Synonyms	1,3,5-Tris-(2methyl-propenyl)-s-triazine-2,4,6(1H,3H,5H)-trione
CAS-No.	6291-95-8
Molar Mass	291.35 g/mol
Description	white crystalline powder
Packaging	15kg in 30l plastic drum

SPECIFICATION

Property	Value	Unit	Method
Purity	min. 95.0	%	GC-Determination

PHYSICAL AND CHEMICAL DATA

Property	Value	Unit
Melting point	84	°C
Boiling point at 1013 hPa	335	°C
Vapour pressure (175 °C)	7	hPa
Enthalpy of vaporization	58.5	kJ/mol

PROPERTIES

TAICROS® M is a trifunctional monomer with a very low tendency to homopolymerization and high thermal stability. Compared to other crosslinkers like TAC or TAICROS® it has a lower vapour pressure even at high temperatures and is stable in the presence of water and mineral acids.

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APPLICATION

TAICROS® M is a coagent for peroxide or electron beam crosslinking of polymers with high processing temperatures. Crosslinking with TAICROS® M also improves the resistance of final products against high temperatures and/or agressive media as they are required in automotive, aerospace, machinery and chemical processing applications. Typical examples are:

- electron beam crosslinking of PA 6, PA 12 or PBT to improve heat deflection temperature, E-modulus, aging properties and chemical resistance.
- peroxide crosslinking of FKM´s to improve mechanical properties of products that have to withstand very agressive media like biodiesel (e.g. fuel hoses) and meet highest automotive standards.

HANDLING AND STORAGE

TAICROS® M has a low acute toxicity. For handling regular personal protection equipment is recommended (for details see our MSDS). The material should be used within 12 months after delivery. After longer storage times it is recommended to control the quality of TAICROS® M before usage. Store under dry conditions at temperatures below 30°C.

SAFETY AND APPROVALS

TAICROS® M is listed in the EU, US, Canada, Australia, Japan, China and the Phillipines. Safety data, transport regulations and toxicological data are indicated in the safety data sheet.

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