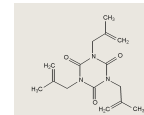
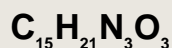


Product information

TAICROS® M

Trimethallyl isocyanurate



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.

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 aggressive 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 aggressive 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.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

Performance Materials
Paul-Baumann-Straße 1
45772 Marl, Germany
PHONE: +49 2365 49-84558
functionalsolutions@evonik.com

