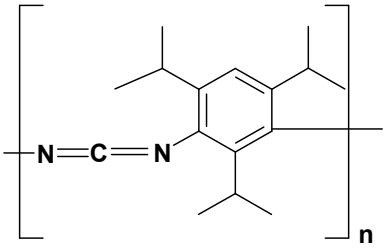
PRODUCT DATA SHEET

Stabilizer 9000

Chemical Structure



Chemical Name	Poly-(1,3,5-triisopropyl-phenylene-2,4-carbodiimide)	**CAS-No.**	29963-44-8
Empirical Formula	$(C_{16}H_{22}N_2)_n$	**Description**	sterically hindered, polymeric, aromatic carbodiimide
Molecular Weight	polymer		

Typical data

Appearance	white to off-white	**Melting point**	ca. 140 - 160°C
Carbodiimide content	min. 17% (IR)	**Solubility (20°C)**	almost insoluble in water and ketones, less soluble in alcohols, soluble in polyesters and most organic solvents
Isocyanate content	max. 0,1% (IR)		

Application

STABILIZER 9000 is a hydrolytic stabilizer for ester und amide group containing polymers with a very high activity especially at elevated processing temperatures. STABILIZER 9000 acts as acid and water scavenger and prevents autocatalytic degradation. Due to its high molecular weight and the absence of low molecular weight compounds it has a very low volatility and forms volatile decomposition products only in traces, if used in an appropriate manner.

Application examples:
The optimum quantity of STABILIZER 9000 in the production of monofilaments or industrial injection moulded parts made of PET or PA is generally in the range of 0.3-1.2% depending on the desired degree of hydrolytic stability and the application type.

The main applications are the stabilisation of polyesters (PET, PBT, PEEE copolyesters), polyamides and polyesterpolyol based polyurethanes.

Delivery

HS Code	2925 19 95	**Storage advice**	Keep package closed, store dark and dry
Standard Packing	PE bags with 15 kg net content, shrink-wrapped on pallets	**Retest period**	3 years

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