Technical Information

Petrochemicals Specialty Monomers

TI/CP 0031 e June 2016

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Supersedes edition dated June 2015

BASF We create chemistry

Stearyl Polyethyleneglycol Methacrylate 1100 (SPEGMA 1100)

Methacrylic acid ester, for manufacturing polymers and for use as a feed stock for syntheses

CAS No.: 70879-51-5

Molar mass: 1411.9 kg/kmol 1439.9 kg/kmol

Molecular formula

Product specification

 $C_{70}H_{138}O_{27} / C_{72}H_{142}O_{27}$

Assay (NMR)	60 ± 3 %
Water content (ASTM E 203)	20 ± 3 %
Acid content (calc. as methacrylic acid)	20 ± 3 %
(ASTM D 1613)	
Color on dispatch	max. 100
(APHA, ASTM D 1209)	
Standard stabilization (HPLC)	250 ± 50 ppm BHT
	$40 \pm 20 \text{ ppm MEHQ}$

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

Other properties

Appearance & Physical form Stabilization (Topanol A, HPLC) Density at 20 °C Melting point pH clear, colorless liquid <200 ppm 1.05 g/cm³ 0.9 °C 3 – 4.5 Labelling according to local Directives

see SDS

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Applications	Stearyl Po homopoly Methacry acid and maleic ac butadiene	Stearyl Polyethyleneglycol Methacrylate 1100 (SPEGMA 1100) forms homopolymers and copolymers. Copolymers of Stearyl Polyethyleneglycol Methacrylate 1100 (SPEGMA 1100) can be prepared with (meth)acrylic acid and its salts, amides and esters, and with (meth)acrylates, acrylonitrile, maleic acid esters, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene, unsaturated polyesters and drying oils, etc.	
	Stearyl Po very usefu addition r	olyethyleneglycol Methacrylate 1100 (SPEGMA 1100) is also a ul feedstock for chemical syntheses, because it readily undergoes eactions with a wide variety of organic and inorganic compounds.	
Features & Benefits	Stearyl Po used to ir	blyethyleneglycol Methacrylate 1100 (SPEGMA 1100) can be npart the following properties to polymers:	
	Hydrop	phobicity / Hydrophilicity	
	Rheold	gy modification	
	Dispersion	sant	
Storage & Handling	In order to 1100 (SP inert gase effectively	b prevent polymerization Stearyl Polyethyleneglycol Methacrylate EGMA 1100) must always be stored under air, and never under es. The presence of oxygen is required for the stabilizer to function v.	
	Freezing of results in important material p MEHQ int tumbler.	of Stearyl Polyethyleneglycol Methacrylate 1100 (SPEGMA 1100) segregation of monomer and inhibitor. In addition it is especially to replenish dissolved oxygen after melting the drummed prior to use. Replenishment dissolved oxygen and mixing of to the monomer can be done using a palette shaker or a drum	
	The melti maximum room of 2 alternative hot oil are Polyethyle hot spots aging of r polymeriz	ng process requires temperatures of 20 °C or higher but at a of 35 °C as the heating temperature. Warming the product in a 20 – 25 °C over several days is the preffered option. As an e if faster mleting is required heating cabinets using hot water or e the preferred apparatus for thawing process of Stearyl eneglycol Methacrylate 1100 (SPEGMA 1100) since this avoids . Local hot spots of more than 35 °C may result in premature naterial. Product temperatures of more than 45 °C may result in a ation of the monomer.	
	During sto oxygen co 1100 (SP temperato degradati Stearyl Po can be ex	brage as a molten liquid it is advisable to replenish the dissolved content on a weekly basis. Stearyl Polyethyleneglycol Methacrylate EGMA 1100) has to contain a stabilizer and the storage ure must not exceed 20 °C to prevent premature quality on. If the above mentioned conditions are met a storage stability olyethyleneglycol Methacrylate 1100 (SPEGMA 1100) of 6 months spected upon delivery.	
Safety	A Safety I Methacry on questi	Data Sheet has been compiled for Stearyl Polyethyleneglycol late 1100 (SPEGMA 1100) that contains up-to-date information ons relevant to safety.	

Note

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The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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