

PRODUCT DESCRIPTION - PD 333-10.6EN

Material no. 452399

GRINDSTED® PGMS 90

Propylene Glycol Ester

Description

GRINDSTED® PGMS 90 is a distilled propylene glycol ester made from edible, refined vegetable fatty acids.

Application areas

Topping powder, high ratio shortening, margarine, cake mix and powdered sponge improver and cake gels.

Potential benefits

- Topping powder: provides short whipping time, improves overrun, creates a nice and stiff foam, provides clean mouthfeel when whipped
- High ratio shortening: provides good whipping properties
- Cake margarine: promotes large cake volume
- Powdered sponge improver: promotes large cake volume, provides uniform cake structure, promotes good cake batter stability
- Cake gels: promotes large cake volume, promotes good cake batter stability, prolongs shelf life of cakes

Usage levels

(Based on total product, unless indicated otherwise.)

Topping powder	max. 3 %
Cake shortening	3-5 %
Cake margarine	1 %
Powdered cake improvers	10-14 %
Cake gels	5-15 %
Sponge cakes	1.5-2.5 % of cake gels
Swiss rolls	1.5-2.5 % of cake gels

Composition

GRINDSTED® PGMS 90 is a distilled propylene glycol ester (E 477) with antioxidants added:
Alpha-tocopherol (E 307) max. 150 ppm
Citric acid (E330) max. 200 ppm
(dissolved in propylene glycol)

Physical/chemical specifications

(Methods of analysis available on request)

Total monoester content	min. 95 %
Iodine value	max. 3
Free propylene glycol	max. 1 %
F.F.A.	max. 1.5 %
Melting point	approx. 40 °C
Form	beads

Microbiological specifications

Total plate count	max. 5,000 /g
Yeast and mould	max. 100 /g
Coliforms	absent in 0.1 g
Salmonella	absent in 25 g

Heavy metal specifications

Arsenic (As)	max. 3 mg/kg
Lead (Pb)	max. 2 mg/kg
Mercury (Hg)	max. 1 mg/kg
Cadmium (Cd)	max. 1 mg/kg
Heavy metals (as Pb)	max. 10 mg/kg

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Nutritional data

(Approximate values for nutrition labelling per 100 g)

Energy	900/3,800 kcal/kJ
Protein	not applicable
Carbohydrate	not applicable
- of which sugars	not applicable
Fat	100 g
-of which saturates	97 g
Fibre	not applicable
Sodium	not applicable
Trans fatty acid	< 1 %

Storage

GRINDSTED® PGMS 90 should be stored in unbroken packaging under conditions not exceeding 10°C/50°F and 80% relative humidity. Keep away from sunlight and odorous products.

Total shelf life 18 months

Shelf life is stated as a min. from date of production when the product is stored in unbroken packaging and provided that the storage conditions specified are observed.

Packaging

Carton (powder)	25.00 kg
Industry pallet	500.00 kg
Tara weight	0.05 kg

Purity and legal status

GRINDSTED® PGMS 90 meets the specifications laid down by the FAO/WHO, the EU and the Food Chemicals Codex. GRINDSTED® PGMS 90 is covered by EU reference No. E 477 and by US FDA 21 CFR 172.856.

Local food regulations should always be consulted concerning the status of this product, as legislation regarding its use in food may vary from country to country. Advice regarding the legal status of this product may be obtained on request.

Safety and handling

A Material Health and Safety Data Sheet is available on request.

Country of origin

Malaysia

GMO status

According to regulations EC Nos. 1829/2003 and 1830/2003: The raw materials used in the production of this product do not contain or consist of GMOs, and are not produced from GMOs. According to our information no known commercial GM variant is available. Adventitious and unavoidable GM cross contamination is not exceeding the limits of 0.5% and 0.9%. Questionnaire has been used as documentation.

According to regulations EC Nos. 1829/2003 and 1830/2003: Microorganisms used for the production of citric acid are not genetically modified microorganisms. Substrates and carriers do not contain or consist of GMOs and are not produced from GMOs. Questionnaire has been used as documentation.

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Allergens

Below table indicates the presence (as added component) of the following allergens and products thereof:

Yes	No	Allergens	Description of components
	X	Cereals containing gluten	
	X	Crustaceans	
	X	Eggs	
	X	Fish	
	X	Peanuts	
	X	Soybeans	
	X	Milk (including lactose)	
	X	Nuts	
	X	Celery	
	X	Mustard	
	X	Sesame seeds	
	X	Sulphur dioxide and sulphites (>10 mg/kg)	
	X	Lupin	
	X	Molluscs	

According to Commission Directive 2005/26/EC of 21 March 2005: Fully refined soybean oil and fat and products thereof are included in the list of food ingredients or substances provisionally excluded from Annex IIIa of Directive 2000/13/EC of the European Parliament and of the Council.