

**TECHNICAL DATA SHEET**Effective date: 04.2019
Rev.1**Glyceryl caprylate****INFORMATION ON SUBSTANCE / MIXTURE**

INCI	Glyceryl caprylate
Chemical formula	C ₁₁ H ₂₂ O ₄
Chemical name	octanoic acid, monoester with glycerol
Manufacturing process	Obtained by an esterification process of Glycerol and Caprylic acid. The origin is 100% vegetable
Description	Highly purified multifunctional ingredient with 88% minimum content of monocaprylate used for alternative preservation, refatting and wetting. It is 100% natural, vegan, free from palm and palm kernel oil.
Application	<p>The high content of monoglycerides (min. 88%) with free hydroxyl groups is well suited to attract and bind water molecules and supports the hydrating properties of cosmetics products. Its amphiphilic characteristic promotes the absorbance of oil components to the upper layers of the skin and lowers the surface tension.</p> <p>This property can lead to smaller droplet size, hence more stable emulsions. In powder formulations it acts as a binder and wetting agent. Additionally Glyceryl caprylate exhibits excellent antimicrobial efficacy against microorganisms. This makes it a valuable support for anti-acne products.</p>
Molecular weight	218.29
Raw material category	Antimicrobial, hydrating and refatting, stability enhancer
Antimicrobial performance	Gram+: very good Gram-: very good Yeast: very good Mold: moderate

TECHNICAL DATA**Physical and chemical parameters**

Appearance	Pasty crystalline mass or clear liquid, depending on the storage conditions. In the range between 25°C and 30°C it can be any of both physical forms. Above 30°C it is a clear liquid. This variation in physical form at different temperature is normal and does not have any influence on the product quality or performance in formulations
Color	White
Odor	Characteristic
Solubility	Soluble in all oils, fats, and mineral oil and dispersible in excess of water
Acid value	< 0.5 mg KOH/g

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Saponification value	245 – 265 mg KOH/g
Monoglycerides	Min 88 %
Melting point	30°C
Heavy metal content as Pb	Max. 10 ppm
Arsenic content as As ₂ O ₃	Max. 2 ppm
Residue on Ignition	Max. 0,5 %

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in a cool and dry place, protected from light in tightly closed original container at temperatures below 25°C
Shelf Life	36 months under good storage conditions

LEGISLATION

Certification	-
Halal	Yes
Kosher	Yes
EINECS	247-668-1
CAS	26402-26-6
REACH Status	01-2120119773-55-0000

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