

# Technical Data Sheet

**Product identification** PolyAqual™ OS2

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INCI Name	<i>Polyglyceryl-2 Oleate (and) Polyhydroxystearic Acid (and) Polyglyceryl-2 Stearate</i>
CAS	[49553-76-6], [58128-22-6], [12694-22-3]
EINECS	256-367-4, 500-140-7, 235-777-7

**Product Properties**

Description	Polyglycerol-based for cosmetic W/O emulsions Amber thick gel
Key Features	<ul style="list-style-type: none"><li>• Non-ionic, PEG-free</li><li>• Naturally derived</li><li>• Stable emulsion without co-emulsifier addiction</li><li>• Stable emulsion with low amounts of consistency factors (waxes and lipophilic gelling agents)</li><li>• Allows for high internal aqueous phase</li><li>• Enhances silicone-emulsifier performances</li><li>• Compatible with oils of various polarity and chemistry</li><li>• Compatible with physical and chemical UV filters</li><li>• Compatible with pigments</li><li>• Cold-processable</li><li>• Unique sensorial properties</li></ul>
Recommended use level	2 - 6 %
Solubility	Dispersible in vegetable and mineral oils
Formulation procedures	Forms stable W/O emulsion using cold or warm processes. Has to be added to oil phase of an emulsion, to which the water phase is incorporated slowly while stirring intensively. The coarsely dispersed pre-emulsion is then homogenized. The temperature of the water and oil phase should be approximately the same. In presence of a liquid oil phase, heating during emulsification process is not mandatory.
Applications	Skin care, Baby care, Sun Care, Make up, Green formulations

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**Storage**

In original sealed containers, in a cool and dry place, protected from light. During storage, turbidities or separation may occur which, if necessary, can be reversed by stirring. Preferably the content of complete containers should be processed.

**Shelf Life**

5 years, stored unopened in original drums. Once opened the shelf life is limited by temperature, light and exposure to air.

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