



TW20

INCI: **Polysorbate 20 (PEG 20 Sorbitan monolaurate)**

01 Chemical identification

CAS-No.	9005-64-5 (generic)
EINECS-No.	OECD-Polymer
Composition	active content > 97 %
Origin	vegetable

02 General specifications and typical properties

Specifications		Typical properties	
form (25°C)	liquid	density (25°C, g/cm ³)	approx. 1.11
acid value ¹ (mg KOH/g)	max. 2	viscosity (25°C, mPas)	approx. 400
hydroxyl value ² (mg KOH/g)	96 - 108	solidification point (°C)	< 0
saponification no ³ (mg KOH/g)	40 - 50	HLB-value	approx. 16.7
peroxid number ⁸	max. 10	total ash (%)	max. 0.25
water content ⁴ (%)	max. 3	biological degradability (%) (OECD 302 B)	approx. 37

03 Manufacturing process, quality maintaining additives and possible impurities

solvent	none	free ethylene oxide ⁵	< 1 ppm
preservatives	none	dioxan content ⁶	< 10 ppm
antioxidants	none	heavy metals ⁷	< 10 ppm
manufacturing process	ethoxylation, esterification		

04 Microbiology

A microbiological contamination can be excluded due to the production parameters (pressure and temperature profile) and due to the water content (< 3 %). Microbiological examinations occur on irregular basis.

05 Toxicological assessments

The product has been toxicologically evaluated. Please ask for our separate toxicological data sheet. For further information regarding eco-toxicology and product safety please refer to our safety data sheet.

06 Additional risk assessment

No BSE / TSE risk (no animal derived material).

07 Additional information

The product meets the requirements of USP 35 or NF 30, European Pharmacopoeia 7th Edition 2011, latest supplement and of DAB 10 for Polysorbate 20.

By low temperatures, cloudiness may appear due to natural processes. As a rule, however, the cloudiness disappears by slight heating and stirring, without any loss of quality. May gel during storage.

Shelf life of the product: At least 2 years in the closed original packing stored cool and dry without exposure to direct sunlight and not below 0°C.

Attention: may gel during storage.

Intended use: Personal Care Application
Excipient in Pharmaceutical Application

<u>Analytical methods equivalent to:</u>	1 DIN 53402	4 DIN 51777	Version 01.00
	2 DIN 53240	5 in-house	7 European Pharmacopoeia 7 th Edition 2011
	3 DIN 53401	6 in-house	8 DGF Einheitsmethoden

These information are the best of our current knowledge. They do not constitute a warranty and the customer should satisfy itself of the suitability of the content for its own particular purpose.