

octobre 2025 / october 2025

**POLYGLYCOL 400** 

INCI: **PEG-8** N°CAS: 25322-68-3 N°EINECS/ELINCS:

#### **DESCRIPTION / DESCRIPTION:**

Le polyglycol 400 est un mélange de polymères provenant de l'oxyde d'éthylène, de formule générale H-(OCH<sub>2</sub>-CH<sub>2</sub>)<sub>n</sub>-OH.

Sa masse moléculaire moyenne est égale à 400 environ (correspondant à la valeur nominale n) / Polyglycol 400 is a mixture of polymers derived from ethylene oxide, of general formula H-(OCH<sub>2</sub>-CH<sub>2</sub>)<sub>n</sub>-OH. Its average molecular weight is about 400 (corresponding to the nominal value n)

Matière première conforme à la Pharmacopée Européenne en vigueur (monographie: MACROGOLS type 400) / Raw material conforming to the European Pharmacopoeia in force (monography: MACROGOLS type 400)

#### **CARACTERISTIQUES GARANTIES / GUARANTEED SPECIFICATIONS:**

CARACTERISTIQUES	SPECIFICATIONS	METHODES / METHODS
Aspect à 20°C / aspect at 20°C	Liquide limpide et incolore / clear, colourless liquid	1BAL02
Poids moléculaire moyen / average molecular weight	385 – 415 g.mol <sup>-1</sup>	1BAL01
Indice d'hydroxyle / hydroxyl value	270 – 291 mg KOH/g	1BAL01
Couleur / color	≤ 25 PtCo	1BAL05
pH (solution aqueuse à 5%) / pH (5% aqueous solution)	4.5 – 7	1BAL06
Cendres sulfuriques / sulfuric ashes	≤ 0.1 %	1BAL10
Teneur en eau / water content	≤ 0.5 %	1BAL08
Oxyde d'éthylène résiduel / Residual ethylene oxide	≤ 1 ppm	1BAL09
Teneur en dioxane / dioxane content	≤ 5 ppm	1BAL09
Viscosité cinématique à 99°C / kinematic viscosity at 99°C	6.8 – 8 mm <sup>2</sup> .s <sup>-1</sup>	1BAL16
Acidité (en acide acétique) / acidity (as acetic acid)	≤ 0.015 %	1BAL11
Teneur en MEG+DEG / MEG+DEG content	≤ 0.2 %	1BAL12
Teneur en métaux lourds (en Pb) / heavy metals content (as Pb)	≤ 5 ppm	1BAL14
Teneur en formaldéhyde / formaldehyde content	≤ 15 ppm	1BAL44

Ces éléments seront repris sur nos BA / these elements will be on our CoA

#### CARACTERISTIQUES A TITRE D'INFORMATION / ADDITIONAL INFORMATION:

Pharmacopée USP/NF: conforme / USP/NF pharmacopoiea: conform Directives EEC et ICH: conforme / EEC and ICH guidelines: conform

Viscosity at 20°C / Viscosity at 20°C: 94 – 116 mm<sup>2</sup>/s



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#### **POLYGLYCOL 400**

#### **APPLICATIONS:**

Produits pharmaceutiques, cosmétiques, textile, plastiques et résines, industrie du papier, imprimerie, industrie du métal, produits chimiques intermédiaires / Pharmaceuticals, cosmetics, textile, industry, plastics ans resins, paper industry, printing, metal industry, chemical intermediates

#### CONDITIONNEMENT STANDARD / STANDARD PACKAGING:

IBC de 1100 kg – fût de 220 kg – tonnelet de 60 kg / 1100 kg IBC – 220 kg drum – 60 kg keg Matière première non classifiée comme substance dangereuse / Raw material not classified as dangerous substance

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al oil		
derivates (MOSH, MOAH POSH, POAH), nitrogen compounds are not present in the		
าร		
We have every reason to expect that these products are free of food allergens (1169/2011) and cosmetics allergen (1223/2009 & 2023/1545)		
for any		
purpose for the material in reference, and its component ingredients since March		
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### **POLYGLYCOL 400**

	- 1,4-dioxane: 5 ppm maximum		
	According to Article 14 of the Cosmetics Regulation (EC) No 1223/2009, substances		
	classified as CMR substances shall be prohibited. However, according to Article 17,		
	the non-intended presence of traces of a prohibited substance, stemming from		
	impurities of natural or synthetic ingredients, the manufacturing process, storage,		
	migration from packaging, which is technically unavoidable in good manufacturing		
		ed that such presence is in conformity with Article	
	3.		
	The product Polyethylene Glycol is not analyzed on a routine basis for substances		
	listed in Annex III of EC No 1223/2009. However, diethylene glycol is present as an		
	impurity < 0.1%.		
	As a consequence, this product is compliant with cosmetic regulation (EC) No		
	1223/2009		
Cosmos / Ecocert	This product is synthetic – not accepted by Cosmos		
Danger	This product is not classified as dangerous according to CLP and ADR		
Dioxane	Dioxane is likely to be present at concentration < 5 ppm		
Ecolabel	No data available		
European Pharmacopeia	This product is compliant with the current European Pharmacopeia, USP/NF		
Luiopean Filaimacopeia			
Food	Pharmacopoeia, EEC & ICH guidelin		
rood	This product <u>do not comply with Commission Regulation (EU) No 231/2012</u> laying down specifications for food additives listed in annex II and III of regulation (EC) No		
		• , ,	
	, , , , , , , , , , , , , , , , , , , ,	e residual amount of ethylene oxide on the	
	specifications is 1 ppm, which is higher than the 0.1 ppm required		
Genetically Modified	This product is free from GMO		
Organisms (GMO)			
Inventories	Listed in	Philippines PICCS,	
	China IECSC,	Australia AICS,	
	USA TSCA,	Canada DSL,	
	New Zealand NZIoC,	Thailand (TECI, 2012) 55-1-02846	
	Korea ECL (KE-20228),	Japan ENCS/MITI (7-129)	
Geographic origin (for	Not concerned		
plant)			
Glycol ether	No data available		
Halal	This product doesn't have a formal Halal certification, but meets the basic		
	requirements of Halal (no material	of animal origin or biological origin are used)	
Heavy Metals	Heavy metals not expected to be present		
HS code	3907291190		
Irradiation / ionization	This product has not been treated with ionizing		
Kosher	This product is Kosher certified		
Latex	Latex is not expected in this product		
Manufacturing location	Belgium / Germany		
Microbiological data	No data available		
Microplastics	This restriction does not apply if on	e of the following requirements is fulfilled:	
•	- The substance is not a polymer	5 1	
		oint or initial melting point of 20°C or less at a	
	standard pressure of 101.3 kPa)		
	- The polymer is biodegradable		
	- The polymer is blodegradable - The polymer is soluble: >2 g/L		
	· · · · · · · · · · · · · · · · · · ·		
	PEG-series (CAS 25322-68-3)  Polyothylono glycols with a molecular weight below 600 Da are considered liquid		
	- Polyethylene glycols with a molecular weight below 600 Da are considered liquid.  PEG 600 Da is borderline and PEGs with a molecular weight above 600 Da are		
	considered solid polymers.		
	· ·	>> 2 a/l	
	- All PEG grades are water soluble >	>>	



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#### **POLYGLYCOL 400**

	=> The microplastics restriction is not applicable for PEG grades		
Nanomaterials	Not expected		
Nitrosamines	Though PEGs are not tested on a routine basis for nitrosamine impurities, the		
Nitiosaililles	, ,		
	production route for does not entail the use of these products in any stage of the		
	manufacturing process, nor have they been seen to be produced within the process,		
	and from this, it is reasonable to assume that nitrosamines are not present and meet		
	the following guidelines:		
	• EMA/409815/2020		
	• EMA/369136/2020		
Nutritional data	No data available		
Origin	Petrochemical		
PAH/PFAS	Not been tested for the presence of PFAS (per- and polyfluoroalkyl substances), we		
	hereby confirm that our products do not contain any intentionally added PFAS.		
Pesticide	Not expected		
Phthalate	No data available		
Preservative	This product doesn't contain BHT		
	no colorants (Annex IV), conservatives (Annex V) nor UV filters (Annex VI) are		
	used for the production of Polyethylene Glycol.		
Process	This product is produced by reaction of diethylene glycol and ethylene oxide.		
REACH	This product is a polymer – exempted from REACH (the monomers are registered)		
Residual Solvents	No <u>Class</u> 1 solvents are used in the manufacturing process and are not likely to be		
	present,		
	solvents of <u>Class</u> 2 that are likely to be present: - ethylene glycol < 300 mg/kg - 1,4 dioxane < 380 mg/kg, solvents of <u>Class</u> 3 that are likely to be present: -acetic acid < 0.015 %wt,		
	No <u>Class</u> 4 solvents are used in the manufacturing process and are not likely to be		
	present in the final product according to EMA/CHMP/ICH/82260/2006 (March 2011)		
	guideline for residual solvents		
RSPO	This product doesn't contain palm derivates – not concerned		
Shelf Life before re-check	4 years		
Substances of Very High	This product is not listed or contain substances mentioned on the "Candidate List of		
Concern (SVHC)	Substances of very High Concern" SVHC published 21/01/2025 in concentration		
	≥0.1%		
Volatiles organic	- Vapour pressure: < 0.001 kPa (20°C)		
compounds (VOC)	- Boiling point: > 200°C (calculated; decomposes)		
• • •			
	0% VOC according to :		
	-2010/75/EU		
	-2004/42/CE		
	-SR814018; 01/01/2017 -2015/886/EEU		
	-2013/880/EE0 -2011/383/EU		
	-2011/303/10		

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Ce document annule et remplace tous documents techniques et réglementaires précédents / This document cancel and replace all technical and regulatory previous documents.