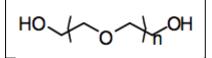


### **POLYGLYCOL 4000**

Octobre 2025 / October 2025



INCI: **PEG-90** N°CAS: 25322-68-3 N°EINECS/ELINCS: –

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

Le polyglycol 4000 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 4000 environ (correspondant à la valeur nominale n).

Polyglycol 4000 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 4000 (corresponding to the nominal value n)

Matière première conforme à la Pharmacopée Européenne en vigueur (monographie : MACROGOLS type 4000) / Raw material conforming to the European Pharmacopoeia in force (monography MACROGOLS type 4000)

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

CARACTERISTIQUES	SPECIFICATIONS	METHODES / METHODS
Aspect à 20°C / Aspect at 20°C	Ecailles blanches / White scales	Visuel / visual
Poids moléculaire moyen / Average molecular weight	3600 – 4400 g.mol <sup>-1</sup>	1BAL01
Indice d'hydroxyle / Hydroxyl content	25 – 31 mg KOH /g	1BAL01
Couleur (25% en solution aqueuse) / color (25% in aqeuous solution)	≤ 25 PtCo	1BAL05
pH (solution aqueuse à 5 %) / pH (5% aqueous solution)	4.5 – 7.5	1BAL06
Viscosité à 20°C (sol.aqueuse à 50°C) / Viscosity at 20°C (50% in aq.solution	102 – 158 mm <sup>2</sup> .s <sup>-1</sup>	1BAL16
Cendres sulfuriques / Sulfuric ashes	≤ 0.1 %	1BAL10
Teneur en eau / Water content	≤ 0.5 %	1BAL08
Acidité (en acide acétique) / Acidity (as acetic acid)	≤ 0.015 %	1BAL11
Teneur en Monoethylene glycol / Monoethylene content	≤ 0.062 %	1BAL12
Teneur en Diethylene / Diethylene content	≤ 0.1 %	1BAL12
Teneur en oxyde d'éthylène / Oxide ethylene content	≤1 ppm	1BAL09
Teneur en dioxane / Dioxane content	≤ 5 ppm	1BAL09
Teneur en métaux lourds (comme Pb) / Heavy metals content (as Pb)	≤ 5 ppm	1BAL14
Teneur en formaldehyde / 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:

Viscosité à 99°C / Viscosity at 99°C: 110 – 158mm<sup>2</sup>.s<sup>-1</sup> (1BAL16)

Point de congélation / Freezing range: 53 – 59°C

Antioxydant BHT (E321) / Antioxidant BHT (E321): 30 – 60 ppm Pharmacopée USP/NF: conforme / USP/NF pharmacopoiea: conform Directives EEC et ICH: conforme / EEC and ICH guidelines: conform Aliments chimiques codex: conforme / Food chemicals codex: conform



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#### **APPLICATIONS:**

Produits pharmaceutiques, cosmétiques, détergents, industrie du textile et du cuir, plastiques et résines, industrie du papier, imprimerie, céramique/verre, mines, industrie du caoutchouc, industrie pétrolière, industrie du métal, bois, produits chimiques intermédiaires

Pharmaceuticals, cosmetics, detergents, textile and leather industry, plastics ans resins, paper industry, printing, ceramics/glass, mining, rubber industry, petroleum industry, metal industry, wood, chemical intermediates

#### **CONDITIONNEMENT STANDARD / STANDARD PACKAGING:**

Ecailles en sac de 25 kg / Scales in 25 kg bag

Matière première non classifiée comme substance dangereuse / Raw material not classified as dangerous substance

Additives	It is reasonable to assume that the following impurities: sulphur compounds,		
	acrylic compounds, aromatics compounds, halogenated compounds, mineral oil		
	derivates (MOSH, MOAH POSH, POAH), nitrogen compounds are not present in the product		
	Contain BHT		
Allergen	We have every reason to expect that these products are free of food allergens		
J	(1169/2011) and cosmetics allergen (1223/2009 & 2023/1545)		
Animal Testing	We have not conducted, commissioned, or been party to any animal testing for any		
_	purpose for the material in reference, and its component ingredients since March		
	11th, 2013.		
BSE - Bovine Spongiform	This product is free from BSE		
Encephalopathy			
California Prop 65	This product is not listed under Proposition 65 State Drinking Water and Toxic		
	Enforcement act.		
	Polyethylene glycol is manufactured by polymerization of ethylene oxide with either		
	water, monoethylene glycol or diethylene glycol as starting materials. Following		
	contaminants or byproducts are known to the State of California to cause cancer or		
	reproductive toxicity:		
	- Ethylene oxide (CAS 75-21-8) < 1 ppm		
	- 1,4-dioxane (CAS 123-91-1) < 5 ppm		
	- Monoethylene glycol (CAS 107-21-1) < 0.062%		
	- Formaldehyde (CAS 50-00-0) < 15 ppm		
	- Acetaldehyde (CAS 75-07-0) < 100 ppm		
	The Proposition 65 List of 11th of August 2023 was taken into account for this		
	declaration.		
Carcinogenic, Mutagenic	This product is not tested on a routine basis for the impurities listed as CMR for		
and Reprotoxic (CMR)	reproduction under European regulation 1272/2008/EC, it is reasonable to assume		
	that only following impurities are likely to be present:		
	dioxane < 5 ppm,		
	ethylene oxide < 1 ppm,		
	formaldehyde < 15 ppm		
Composition	(CAS:25322-68-3): polyethylene glycol > 99.5 %		
	+ (CAS:75-21-8): ethylene oxide < 1mg/kg		
	+ (CAS:107-21-1): monoethylene glycol < 0.062%		
	+ (CAS:111-46-6): diethylene glycol < 0.1%		
	+ (CAS:72-17-3): sodium lactate 0.15%		
	+ (CAS:123-91-1): dioxane < 5 mg/kg		
	+ (CAS:128-37-0): BHT < 100mg/kg		



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## **POLYGLYCOL 4000**

	T- 11			
Cosmetic	Following specifications are valid for Polyethylene Glycol, mentioned in Annex II of Cosmetics Regulation (EC) No 1223/2009:  - Formaldehyde: 15 ppm maximum			
	- Ethylene oxide: 1 ppm maximum - 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 practice, shall be permitted provided 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%.			
	ompliant with cosmetic regulation (EC) No			
	This graduat is supplied in the control by Courses			
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			
	Pharmacopoeia, EEC & ICH guidelin			
Food	This product do not comply with Commission Regulation (EU) No 231/2012			
	down specifications for food additives listed in annex II and III of regulation (EC) No			
		ount of ethylene oxide on the specifications is 1		
	ppm, which is higher than the 0.2 ppm required			
Genetically Modified	This product is free from GMO			
Organisms (GMO)		T		
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	<del> </del>	No data available		
Halal		formal Halal certification, but meet the basic		
		of animal origin or biological origin are used)		
Heavy Metals		sidues: Aluminium (Al), Arsenic (As), Barium (Ba),		
	Berillium (Be), Boron (B), Cadmium (Cd), Calcium (Ca), Cobalt (Co), Chromium (Cr),			
		anganese (Mn), Mercury (Hg), Molybdenum (Mo),		
		g), Tin (Sn), Titanium (Ti), Vanadium (V), Zinc (Zn)		
	are not present in the product, if pr	esent the limit is ≤ 5 ppm		
HS code	3907291190			
Irradiation / ionization	This product has not been treated v	vith ionizing		
Kosher	This product is Kosher certified see	This product is Kosher certified see certificate in our website		
Latex	Latex is not present in this product			
Manufacturing location	Belgium / Germany			
Microbiological data	This product doesn't contain yeast, enzyme and bacteria			
Microplastics	This restriction does not apply if one of the following requirements is fulfilled:			
It	- The substance is not a polymer  - The polymer is a liquid (melting point or initial melting point of 20°C or less at a			
	standard pressure of 101.3 kPa)			
	Totalidata pressure of Totis Ki dj			



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### **POLYGLYCOL 4000**

	- The polymer is biodegradable	
	<ul> <li>The polymer is soluble: &gt;2 g/L</li> <li>PEG-series (CAS 25322-68-3)</li> <li>Polyethylene glycols with a molecular weight below 600 Da are considered liquid.</li> <li>PEG 600 Da is borderline and PEGs with a molecular weight above 600 Da are</li> </ul>	
	considered solid polymers.	
	- All PEG grades are water soluble >>> 2 g/L	
	=> 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	
	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 contains BHT (< 100mg/kg)	
Process	This product is manufactured by reaction of diethylene glycol and ethylene oxide	
REACH	This product is manufactured by reaction of dictifyiene grycor and entyrene oxide  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	
Residual Solvents	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	
PSDO	This product doesn't contain palm derivates – not concerned	
Shalf Life hafara re shack	† · ·	
Shelf Life before re-check	4 years This product is not listed or contain substances mentioned on the "Candidate List of	
Substances of Very High	· ·	
Concern (SVHC)	Substances of very High Concern" SVHC published 21/01/2025 in concentration ≥0.1%	
Valatilas avganis	- Vapour pressure: < 0.001 kPa (20°C)	
Volatiles organic		
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	
	-2011/383/EU	

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