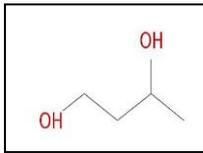


	Dossier technique et réglementaire / <i>Technical and regulatory document</i> BUTYLENE GLYCOL QUALITE COSMETIQUE	Juillet 2025 / July 2025
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INCI: **Butylene glycol**
N° CAS: 107-88-0
N°EINECS/ELINCS: 203-529-7

DESCRIPTION / DESCRIPTION:

Butane 1,3-diol: $C_4H_{10}O_2$ / 1,3-butandiol : $C_4H_{10}O_2$

CARACTERISTIQUES GARANTIES / GUARANTEED SPECIFICATIONS :

CARACTERISTIQUES	SPECIFICATIONS	METHODES / METHODS
Pureté / Purity	≥ 99.5 %	CG
Teneur en eau / Water content	≤ 0.5 %	DIN 51 777 / ASTM D 1364
Acidité / (acide acétique) /Acidity (acetic acid)	≤ 0.005%	DIN EN ISO 2114 / ASTM D1613
Cendre / Ash	≤ 0.05 %	ASTM D2195
Sulfates (SO4)	≤ 0.005 %	IC
Métaux lourds (Pb) / Heavy metals (as Pb)	≤ 5 mg/kg	ICP
Arsenic / Arsenic	≤ 2 mg/kg	ICP
Gamme distillation / Distillation range	203 – 209 °C	DIN 53171 / ASTM D1078
Couleur HAZEN / HAZEN Color	≤ 10	DIN EN 1557 / DIN EN ISO 6271 / ASTM D1209
Densité (20°C) / Density (20°C)	1.004 – 1.006	DIN EN 510757 / ASTM D4052
Indice de réfraction (20°C) / Refractive index (20°C)	1.4390 – 1.4410	DIN 51 423-2 / ASTM D1747

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

CARACTERISTIQUES A TITRE D'INFORMATION / ADDITIONAL INFORMATION:

Etat physique : liquide incolore / *Physical state : colourless liquid*
Poids moléculaire / *Molecular weight* : 90, 12
Point d'éclair / *Flash point* : 115 °C (Méthode / *Method* : ISO 2719)

APPLICATIONS :

Ingrédient cosmétique / *Cosmetic ingredient*

CONDITIONNEMENT STANDARD / STANDARD PACKAGING :

IBC de 1000 kg, Fût de 200kg, tonnelet 50 kg / *1000kg IBC, 200kg drum, 50 kg keg*

Additives	Additives, antioxydants, Aflatoxine, bisphénol A, benzyl alcool, BHA, BHT, chloroforme, DEG, MEG, ethylene oxide, halogen compounds, hormones, methanol, methylene chloride, nitrates, nitrosamines, nonylphenol, nonylphenol ethoxylates, parabens, PAH, steroids are not expected to be present in the product and not intentionally added. This product contains traces of acetaldehyde or other impurities (crotonaldehyde) in the technically unavoidable minimum. Analytical controls of the purified product consistently show values <0.5 mg/kg Traces of 1-butanol and ethanol are not measured, but the presence of these 2
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BUTYLENE GLYCOL QUALITE COSMETIQUE

	impurities is very improbable, considering the manufacturing and purification process		
Allergen	Food allergens listed in annex III of regulation 1169/2011/EC and cosmetics allergen listed in the annex III in the regulation 1223/2009/CE and amendments are not expected to be present in this product.		
Animal Testing	This product has not been subject of animal testing or retesting animal for cosmetic purposes		
BSE - Bovine Spongiform Encephalopathy	No BSE risks. No raw materials are obtained from animal origin or involving animal derived materials.		
California Prop 65	This product doesn't contain substances listed in California Prop. 65 in sizable amounts. Acetaldehyde is listed in California Prop. 65, but doesn't have a defined lower threshold. Based on process knowledge, very small trace amounts of acetaldehyde could be present in the final product.		
Carcinogenic, Mutagenic and Reprotoxic (CMR)	CMR substances are not expected to be present. Formaldehyde (CAS:50-00-0) is a prohibited substance according to international regulation (1272/008/CE) and is not intentionally present in the raw material. Although not expected an according to the manufacturing process, the presence of formaldehyde is technically unavoidable		
Composition	Component	CAS - No	Concentration % (w/w)
	1,3 butylene glycol	107-88-0	99.79
	2-ethyl 1,3butanediol	66553-17-1	0.04
	1,3-dioxane-2-ethanol, α , 4-dimethyl	96948-63-9	0.08
	Crotonaldehyde	4170-30-3	< 0.5 mg/kg
	Acetaldehyde	75-07-0	< 0.5 mg/kg
	Water	7732-18-5	0.05
Cosmetic	Substances listed in annexes II through VI of regulation 1223/2009/EC and its amendments are not intentionally added nor expected to be present in this product.		
Cosmos / Ecocert	This product synthetic is not accepted by Cosmos		
Danger	This product is not classified as dangerous in accordance with CLP and not regulated for ADR		
Dioxane	Dioxin, 1,4-dioxan, 2,4-dioxane are not expected to be present in the product and not intentionally added		
Ecolabel	<i>No data available</i>		
European Pharmacopeia	<i>No data available</i>		
Food	This product doesn't come into contact with the main food allergens (peanuts, tree nuts, fish, eggs, milk, soy, wheat, etc), and this includes any direct or sub-direct ingredients or processing aid used to manufacture the product		
Genetically Modified Organisms (GMO)	This product is not based on raw materials and GMO are not used during the manufacturing process. The product doesn't fall under the scope of regulation 1829/2003/EC, 2001/18/EC, and its amendments including 1830/2003/EC		
Inventories	Compliant with China IECSC, USA TSCA, New Zealand NZIoC, Japan ENCS, Korea KECl, Philippines PICCS, Australia AICS, Canada DSL		
Geographic origin (for plant)	Not concerned		
Glycol ether	Glycol ether is not expected to be present in the product and not intentionally added		
Halal	This product is not Halal certified		
Heavy Metals	Heavy metals (as Lead, Cadmium, Arsenic and mercury) are not expected to be present in the product and not intentionally added, even though their absence is not analyzed on a regular basis. This product contains < 5 ppm of heavy metals contamination based on results from periodic testing.		
HS code	29053920		
Irradiation / ionization	No ionizing irradiation are used during the manufacturing/refining process of the		

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	product
Kosher	This product is not Kosher certified
Latex	Not expected to be present
Manufacturing location	USA
Microbiological data	Microbiological contaminants are not expected to be present in the product
Microplastics	<p>Manufacturer doesn't use microplastics as raw materials or during the manufacturing process. So this product is not expected to contain microplastics.</p> <p>Also, such components are neither expected to be derived from synthesis nor intentionally added.</p> <p>This covers microplastics according to Commission Regulation (EU) 2023/2055 of 25 September 2023 amending Annex XVII to Regulation (CE) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards synthetic polymer microparticles.</p>
Nanomaterials	No nanomaterials are used in the manufacturing process of the product
Nutritional data	<i>No data available</i>
Origin	100% petrochemical
Pesticide	Insecticide and pesticide is not expected to be present in the product and not intentionally added.
PAH / PFAS	Doesn't contain any PFAS substance more than 0.1%
Phthalate	Phthalates are not expected to be present in the product and not intentionally added
Preservative	Preservatives are not intentionally added during the production of this product
Process	<p>Acetaldehyde → Aldolization and reduction from di-hydrogen (H₂). A distillation and a post-purification ensured the quality of this product.</p> <p>The chemical synthesis of this product starts from acetaldehyde (CAS: 75-07-0). The synthesis takes place as a large-scale industrial process in dedicated equipment. The synthesis of this product has been optimized to yield a substance of very high purity that only contains acetaldehyde or other impurities in the technically minimum.</p> <p>Analytical controls of the purified product consistently show values below 0.5 mg/kg</p>
REACH	This product is registered 01-2119455875-25
Residual Solvents	Residual solvents are not expected to be present in the product and not intentionally added.
RSPO	This product is not expected to contain palm oil, palmist oil and their derivatives
Shelf Life	12 months
Substances of Very High Concern (SVHC)	<i>No data available</i>
Volatiles organic compounds (VOC)	Based on its boiling point of 209°C at 101,3 kPa, this product itself is a VOC according to the European directive 2004/42/EC which defines a VOC as any organic compound having an initial boiling point less than or equal to 205°C measured at a standard pressure of 101.3 kPa. This product is listed in the US Clean Air Act Section 111 (40 CFR 60.489)

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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.*