Specifications and Characteristics

NAME	EASYSAFE P8	EASYSAFE GC 8	EASYSAFE OC 8	OCTIOL	
INCI	Caprylyl Glycol, Phenyl- propanol, Water	Caprylyl Glycol, Glyceryl Caprylate/ Caprate, Glycerin	Caprylyl Glycol, Phenyl- propanol, o-Cymen-5- ol, Water	Caprylyl Glycol	
MELTING POINT	< 5 °C	< - 10 °C	< - 10 °C	35°C	
ASPECT	Liquid , almost colorless	Liquid , slightly colored	Liquid , almost colorless	Solid or liq- uid, white / colorless	
ODOUR	Faint, aromatic	Faint, char- acteristic	Faint, aromatic	Faint, char- acteristic	
WATER SOLU- BILITY (20°C)	0.9%	< 0.1 %	0.4%	0.8%	
pH OF USE	3.0 ► 10.0	4.0 ► 7.0	3.0 ► 8.0	3.0 ► 10.0	
USE LEVEL	0.5 • 2.0%	0.75 ▶ 2.0%	0.5 ► Max. 1.5%	0.2 • 1.0%	
COLD PROCESS	Yes	Yes	Yes	No	
MICROBICIDE EFFECT	Yeast/mold/ bacteria	Yeast/mold/ bacteria	Yeast/mold/ bacteria	Yeast/mold/ bacteria	
LISTED PRESER- VATIVE FREE	Yes	Yes	No	Yes	

EasySafe selector



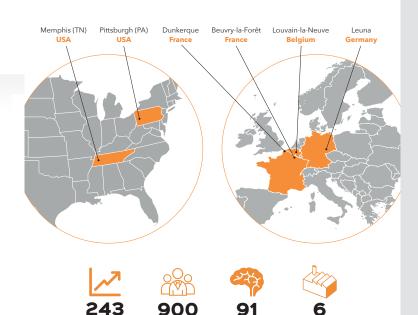
The given information is accurate to the best of our knowledge. Buyers are advised to make their own studies on the usefulness of any product for a particular application or purpose. Recommended usage information is only provided as indication, and should not be considered as recommendations to use the products in violation of any patents, intellectual property rights, laws, or regulations relating, but not limited to, manufacture, composition, product design or end usage.

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Created in 2004, **The MINAFIN* Group**, specializes in fine chemistry for the life sciences and high tech industries. Activities include industrial subcontracting, development of chemical syntheses and industrial scale-up of custom-made processes as well as proprietary products with high added value for the pharmaceutical, cosmetics, agriculture and high-tech industries. Strong synergies exist between all business units: MINASOLVE, MINAKEM, MINAGRO, PENNAKEM, PRESSURE CHEMICALS, MINASCENT and EcoXtract.

Serving market leaders as well as emerging players we support our customers' efforts to improve the quality of life in the global community by:

- ► Improving our chemistry and operational excellence today
- ► Creating and innovating for tomorrow
- Driving our enterprises together to go beyond expectations





SCIENTISTS

PRODUCTION

2021 09. V4.1

EASYSAFE OC 8 - P8 - GC 8

ECO-FRIENDLY & COST-EFFECTIVE SYNERGISTIC SOLUTIONS FOR OPTIMUM ANTIMICROBIAL PROTECTION

- Optimized for high performance
- Efficient at low dosage
- Versatile and easy to use



green solving attitude.



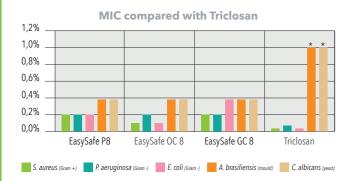
EasySafe P8, GC 8, OC 8 from Minasolve:

A TOOLBOX OF THREE PERFORMANCE SOLUTIONS

For cost effective antimicrobial protection

Safety is key in the design of consumer products, regardless of their sales price. Minasolve therefore offers three economical solutions for alternative formula protection. EasySafe P8, EasySafe GC 8 and EasySafe OC 8 are all based on the cost-effective multifunctional ingredient Caprylyl Glycol (Octiol).

All three solutions are temperature-stable, effective at low dosage, versatile and easy to use liquids. They are based on safe, mild and undisputed components, they are readily biodegradable and suitable for "clean labelling" (halogen-free, paraben-free, formaldehydefree ...). Having a wider antimicrobial spectrum than Triclosan, these three EasySafe blends can be considered safe alternatives.



Optimized for wet wipes protection

EasySafe P8, GC 8 and OC 8 have been subjected to challenge tests on wet wipes in accordance with the Pharm. Eur. protocol.

- ► EasySafe OC 8 and P8 effectively preserve wet wipes at 1% use-level (criteria A).
- ▶ The recommended use-level for **EasySafe GC 8** is **1.5%**.

Tested wipes: Ascutec, 50 g/m2 airlaid, 92% total chlorine free (TCF) cellulose + 8 % ethylene/vinyl acetate binder.

Wet wipes liquid: 91-94% water, 5-8% Natragem S140 NP, 1% EasySafe Blend, pH = 5.5 adjusted with citric acid.

Performance in microbial challenge tests

	Phase	Raw material	INCI name	%
		Demineralized Water	Aqua	ad 100
	Α	Xanthan Gum N ⁽²⁾	Xanthan Gum	0.5
0		Emulgade PL 68/50 ⁽³⁾	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
III S	_	Shea Butter ⁽⁴⁾ Butyrospermum Parkii (Shea) Butter		3.0
/ en	В	Jojoba Oil ⁽⁴⁾	Simmondsia Chinensis (Jojoba) Oil	3.0
0/W emulsion		Hazelnut Oil ⁽⁴⁾	Corylus Avellana (Hazel) Seed Oil	3.0
	С	Bioxan T70 ⁽⁵⁾	Tocopherol	0.1
	D	aq. Citric Acid / NaOH	Citric Acid / Sodium Hydroxide / Aqua	pH 4.5 ► 8.0
	E	EasySafe P8 / GC 8 / OC 8 (1)	Caprylyl Glycol + X	0.5 ► 1.5 %

	Phase	Raw material	INCI name	%
000		Demineralized Water	Aqua	ad 100
shampoo		Xanthan Gum N ⁽²⁾	Xanthan Gum	0.6
e sh	Α	Plantacare 818 UP ⁽³⁾	Coco Glucoside	15.0
sulfate-free		Plantapon ACG HC(3)	Sodium Cocoamphoacetate	5.0
fate		TEGO Betain F 50 ⁽⁶⁾	Cocamidopropyl Betain	5.0
sul	В	aq. Citric Acid / NaOH	Citric Acid / Sodium Hydroxide / Aqua	pH 4.5 • 8.0
	С	EasySafe P8 / GC 8 / OC 8 (1)	Caprylyl Glycol + X	0.5 ▶ 2.0 %

Raw material suppliers:

(1) Minasolve (2) Jungbunzlauer (3) BASF (4) Casear & Loretz (5) BTSA (6) Evonik

		E	asySafe P8		Ea	asySafe G	C8		EasySafe OC	8	Octiol
	pH %	0.5%	0.75%	1%	0.75%	1%	1.5%	0.5%	0.75%	1%	0.75%
O/W emulsion	4.5	A	A	•	В	A	•	A	A		
	5.5	A	A	A	В	A	A	A	A	A	A
	7.0		В	A	В	В	A		B	A	A
	8.0		A	A	•	•	•		A	A	
Sulfate-free shampoo (very hard to preserve)	pH %	1,0%	1,5%	2,0%	1,0%	1,5%	2,0%	0,75%	1,0%	1,5%	1,0%
	4.5	A			В	В			A	•	
	5.5		В	A	B	В	В	В	B	В	В
	8.0		A	•	•	•	0			A	
			EasySafe (GC 8 + EasySafe	P8		Eas	ySafe GC 8 + Ea	sySafe OC 8		
	pH %	0,5% + 0,5%	0,7	5% + 0,75%	1% + 1%		0,5% + 0,5%	0,75% + 0,7	75%	1% + 1%	
	4.5	A		•	•		A	•		•	
	5.5			A				A		•	

Standalone antimicrobial solutions

- ▶ The three EasySafe solutions are effective as standalone protection agents for various types of personal care products.
- ► EasySafe P8 and EasySafe OC 8 can also act synergistically in combination with EasySafe GC 8