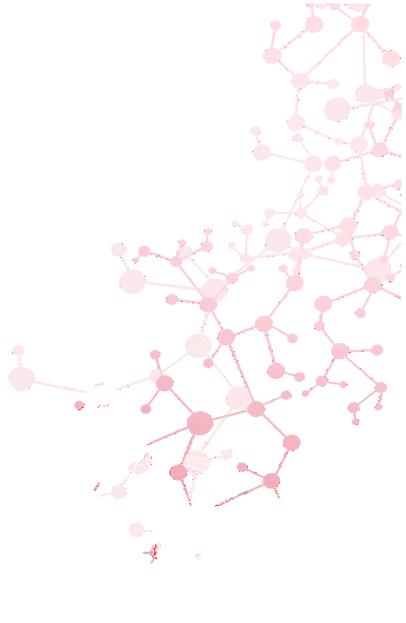
COSMETIC

SAFAXAN RANGE

INCI Name: XANTHAN GUM





OUTLINE

BACKGROUND





MAIN PROPERTIES

PH AND TEMPERATURE STABILITY

SOLUBILISATION AND HYDRATION

USAGE INSTRUCTIONS







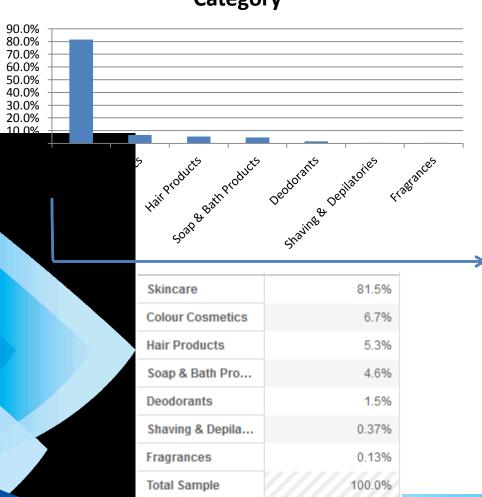
SAFAXAN RANGE: BACKGROUND



- Polysaccharide prepared by bio-fermentation of sugars by bacterium Xanthomonas campestris
- INCI name: Xanthan Gum
- 3 grades:
- <u>Safaxan 80</u>: high particle size (177 µm), low hydration rate, fast dispersion
- <u>Safaxan 200</u>: low particle size (80 μm), fast hydration rate, low dispersion



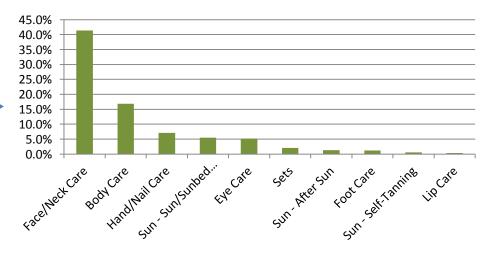
SAFAXAN RANGE: MARKET STUDY



Category

Number of products launched with "xanthan" in Europe* in the past 12 months : 3834 (source Mintel)

Skin care



• France, Germany, UK, Italy, Spain, Belgium, Poland, Czech Republic, Portugal, Netherlands, Turkey



SAFAXAN RANGE: MARKET STUDY

81.5%

6.7%

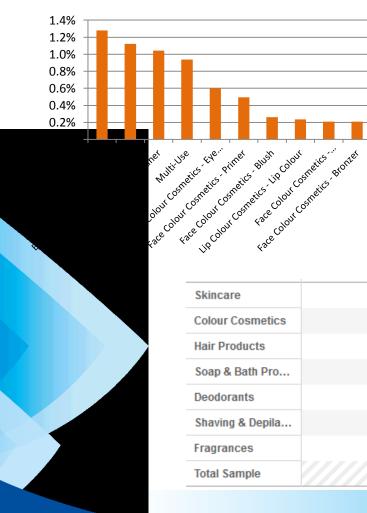
5.3%

4.6%

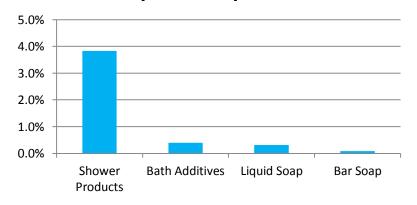
1.5%

0.37%

100.0%

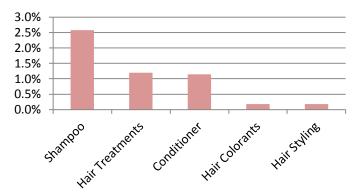


Colour cosmetics



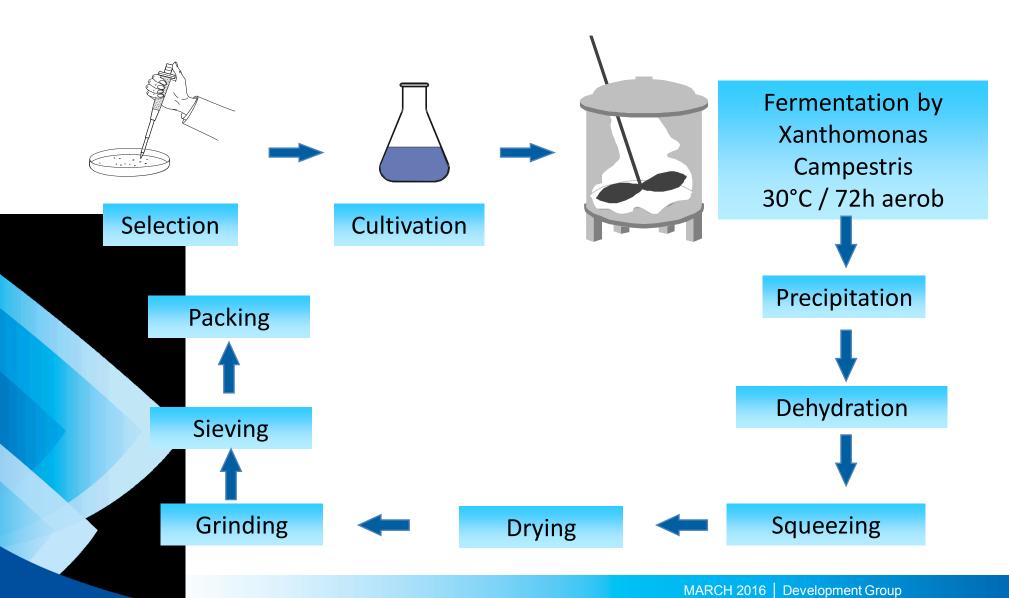
Soap & Bath products

Hair products





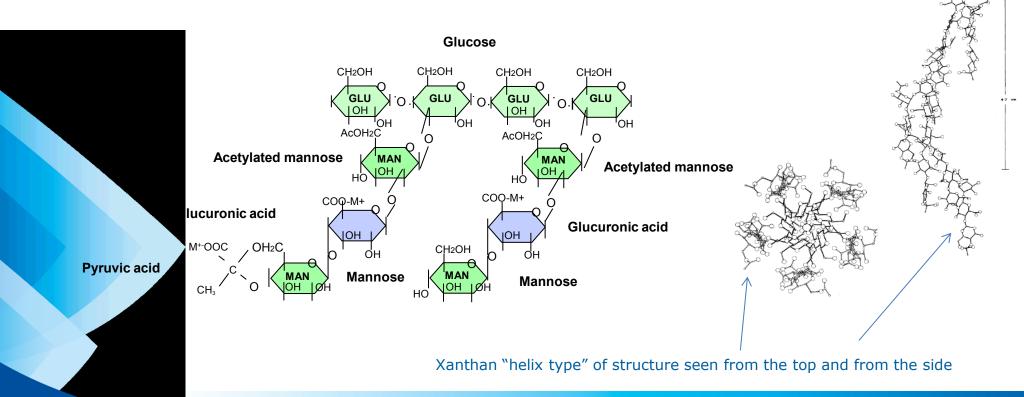
SAFAXAN RANGE: PRODUCTION





SAFAXAN RANGE: STRUCTURE

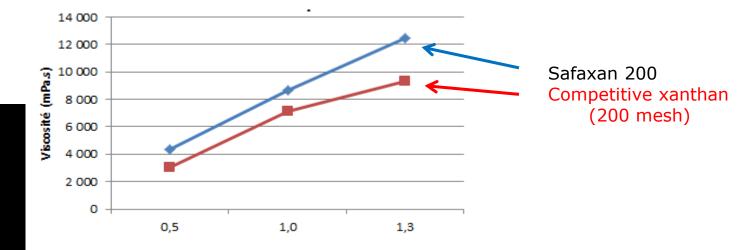
- Xanthan is made of β -1,4-glycosidic glucose units with side chains containing an acetylated mannose, a glucuronic acid and a terminal mannose
- Half of the terminal mannose carry a pyruvic acid residue
- Molecular weight is around 4*10⁶
- Synergy with other polysaccharides (see Safimix GX)





SAFAXAN RANGE: MAIN PROPERTIES

• Thickening and suspending agent with as yield values



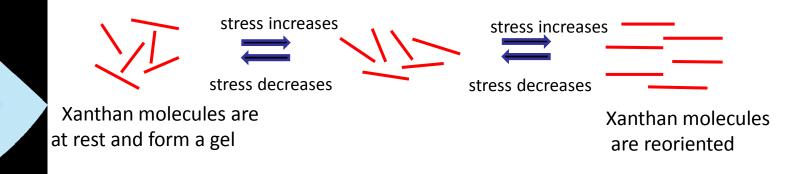
- High stability in extreme conditions (pH & temperature) but sensitive to cationic surfactants
- High degree of pseudoplasticity
- Synergy with other polysaccharides (see Safimix GX)



SAFAXAN RANGE: MAIN PROPERTIES

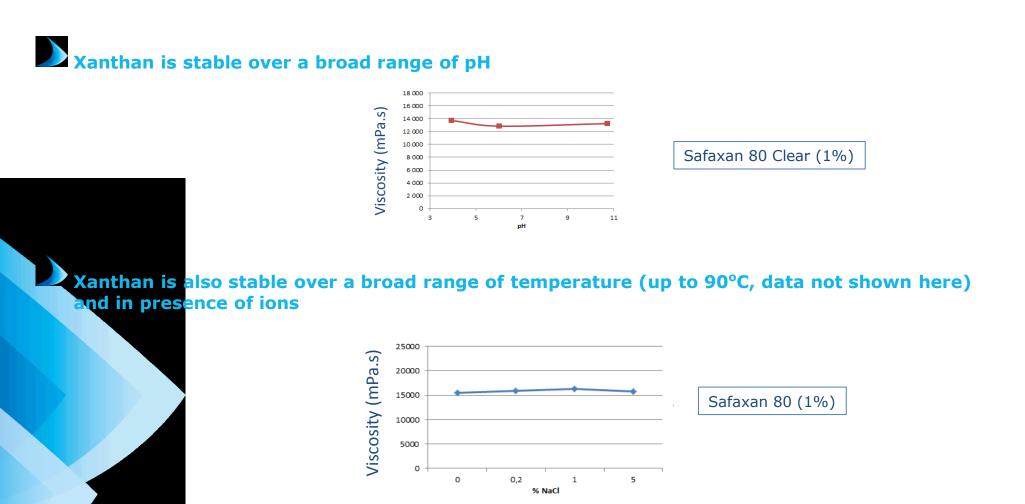
• At rest xanthan molecules adopt an equilibrium : hydrogen bounding creates a network able to suspend particles, droplets, air bubbles

- In presence of stress (movement), molecules are reoriented and the gel is broken
- When the flow occurs , the molecules turn toward the current and the viscosity decreases
- When the stress is removed, the molecules go back to equilibrium



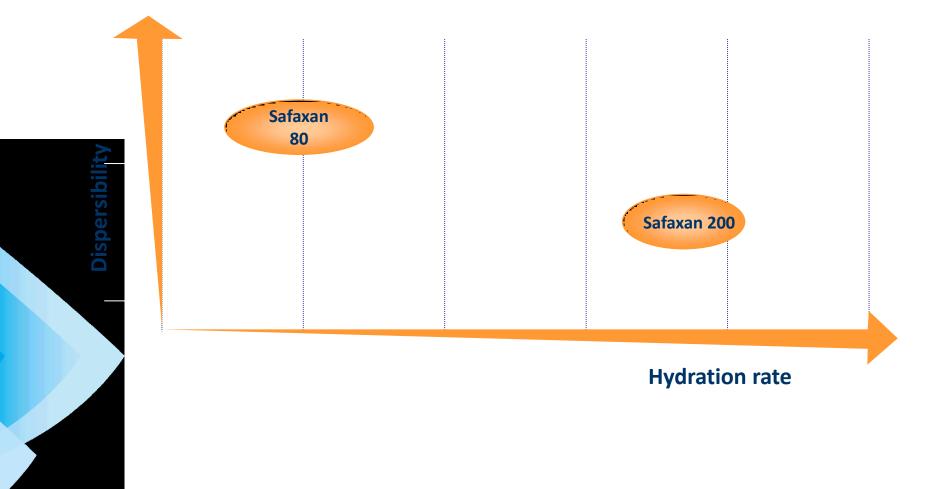


SAFAXAN RANGE: PH AND TEMPERATURE STABILITY





SAFAXAN RANGE: SOLUBILISATION AND HYDRATION





SAFAXAN RANGE: USAGE INSTRUCTIONS

Usage instructions

- Pre-disperse Safaxan in glycerin
- Once the mixture is homogeneous, add it to the water phase
- Xanthan can be added at room temperature
- It is recommended to use Xanthan in presence of electrolytes (salt stabilizes the helix structure)

Application formulae

- Face, neck, body, eye care formulae
- Hair care formulae
- Sun care, after sun and self-tanning formulae

Recommended usage

• 0.2 - 1%

Gloss & *Glow* Golden Blond Hair Leave-on

Golden Blond Hair Leave-on Elixir

Formulated in



Antioxidant Radiance Mask

Go to "Detailed application formulae"





APPENDICES



GLOSS & GLOW: GOLDEN BLOND HAIR LEAVE-ON ELIXIR

- Repairing and moisturizing actives
- Blond hair elixir
- Soft and dry touch
 - **Giving s**trength and vitality to your hair





GLOSS & GLOW: GOLDEN BLOND HAIR LEAVE-ON ELIXIR

	Trade Name	Supplier	European I.N.C.I. Name	%
Phase A	Deionized water	1	Aqua	qsp 100
Phase B	Eastman AQ™ 48 Ultra Polymer	EASTMAN	Polyester-5	2.00
Phase C	Safimix GX		Xanthan Gum, Guar Gum	0.35
	Safaxan 80		Xanthan Gum	0.05
	Glycerin 4810	Oleon	Glycerin	1.00
Phase D	Pellicer™ LB-30G	Asahi KASEI	Aqua, Sodium Dilauramidoglutamide Lysine, Butylene Glycol	0.30
Phase E	Silsoft 880	MOMENTIVE	PEG-12 Dimethicone	1.00
	SF 1550		Phenyltrimethicone	2.00
Phase F	MinaCare [®] Pentiol Green	MINASOLVE	Pentylene Glycol	1.00
	Floraesters® K-20W	FIDIATECH	Hydrolyzed Jojoba Esters, Aqua	1.00
	Vitaminico 39561	Ravetllat	Parfum	0.20
	Vitamin E Acetate USP	Protameen Chemicals	Tocopheryl Acetate	0.20
Phase G	Yuzu Ceramide B	i	Butylene Glycol, Aqua, Citrus Junos Fruit Extract	1.00
	IPF-100K		Aqua, Butylene Glycol, Porphyra Yezoensis Extract	1.00
	Sensicare [®] C 3000	Chemipol	Dehydroacetic Acid, Benzyl Alcohol	0.90
Phase H	Golden Lustre 8G08	PRITTY	Mica, Titanium Dioxide, Iron Oxide, Tin Oxide	1.00
	Glycerin 4810	Oleon	Glycerin	1.00
	Propyle ne Glycol	Cooper	Propylene Glycol	2.00











4 repairing and moisturizing actives



Pearlescent pigments

Go back to "Usage instructions"



WAIT & GLOW: ANTIOXIDANT RADIANCE MASK

Creamy gel texture

Protective, moisturizing, softening and illuminating actives

Thanks to CaCl2 solution, emulsion instantaneously becomes a mask that can be easily removed like a « second » skin





WAIT & GLOW: ANTIOXIDANT RADIANCE MASK

	Trade Name	Supplier	European I.N.C.I. Name	%
Phase A	Deionized water	/	Aqua	qsp 100
Phase B	Safalgin		Sodium Alginate	2.00
	Safaxan 80		Xanthan Gum	0.50
	Glycerin 4810	Oleon	Glycerin	1.00
	Propylene Glycol	Cooper	Propylene Glycol	3.00
Phase C	Sympatens TRH-400	KOLB Member of the KLK Group	PEG-40 Hydrogenated Castor Oil	1.50
	Neossance [®] Squalane	A M Y R I S.	Squalane	3.00
	Intense Relaxing FC10134	Symrise	Parfum	0.20
Phase D	Clareium 100SW		Synthetic Fluorphlogopite, Titanium Dioxide, Tin Oxide	0.50
	Glycerin 4810	Oleon	Glycerin	2.00
Phase E	MandarinClear	(i) PHARCOS	Butylene Glycol, Aqua, Citrus Reticulata (Tangerine) Peel Extract	1.00
	NewAple	Bioland Nature, Science & Life	Aqua, Butylene Glycol, Artemisia Princeps Leaf Extract	1.00
	Phe'Nostress Bio		Rosa Canina Fruit Extract, Water, Glycerin, Potassium Sorbate, Sodium Benzoate	1.00
	Biopol PB12	Chemipol	Methylparaben, Ethylparaben, Phenoxyethanol	1.00
	Brillant Blue FCF 85% E133 1% aqueous solution	Symrise	C.1. 42090	0.08









Association of 3 actives:

- Brightning and glowing active
- Soothing active
- Antioxidant active

Go back to "Usage instructions"