NATURALS

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Benefits of hydrolysed jojoba esters in face masks

Hydrolysed jojoba esters are derived from Simmonda's chimens' (jojoba) seed oil, and impart many of the benefits of jojoba oil, while also providing a unique array of additional benefits. Jojoba oil has been used in lok remedy for surbum treatment, chaffed skin, dry scalp, and wounds' and has been further explored more recently for its anti-inflammatory nature. Hydrolysed jojoba esters have been used in various cosmetic and presnoal care products from titlores and rezerss. In in various cosmetic and personal care products from lotions and creams, to non-woven wipes and face masks. These multifunctional hydrolysed jojoba esters have been shown to hydrate the skin when used in combination with giveni, improve barrier function in damaged skin, and provide product aesthetics that are pleasing to many consumers.⁴

ASSTRACT In a series of double-blind, vehicle-controlled, randomised clinical studies, Floreasters K-20W Jojoba [INCI: Hydrolyzed Jojoba Esters (and) Water (aqua)] was shown to increase skin easisticity, firmerses, and hydration; decrease the number of enlarged pores and fine lines; and increase consumer preference when incorporated into a promywen facerses solution. These dat normoven facemask solution. These data support previous findings, demonstrating the effectiveness of Floraesters K-20W Jojoba in non-woven wipe applications for skin hydration, redness reduction, and enhanced consumer preference.¹

Study design
One per cent (1%) Floraesters K-20W
Jojoba (now referred to as 'hydrolysed
jojoba esters') was incorporated into
a standard non-woven face mask solutior
and compared to the vehicle solution



Key Points for Customers: Country of the Countr

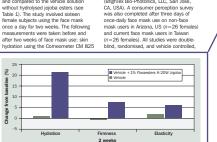
The face mask containing Floraesters K-20W Jojoba increased hydration, firmness, and elasticity.

Key Points for Customers:

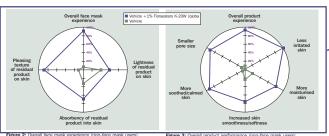
Global face mask market statistics.

Face mask market
The face mask market is a constant growing market. In 2013, in China a growing market. In 2013, in China alone, the face mask market totalled \$1.8. billion (US dollars), up 13% from 2012; Similar tends are staffing to be seen in the US and European markets, with 2013 market totalling \$65 million and \$442 million (US dollars), respectively. The non-voven when the process of t mational of Guangzhou, China for ost \$900 million (US dollars).6

	Table 1: Vehicle Face Mask.			
	Ingredient	%w/w	8	
	Water	94.320	Change from baseline	
	Butylene Glycol	4.000	ase	
	Glycerin	1.500	Ę	
	Xanthan Gum	0.120	£	
	Hydroxyethylcellulose	0.060	nge Be	
	Chlorphenesin	0.050	Cha	
	PEG-4 Laurate (and) lodopropynyl Butylcarbamate	0.037	_	
	Sodium Hyaluronate	0.016		
	Methylisothiazolinone	0.005	Figu	



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Key Points for Customers:

Further detail regarding the increase of hydration, firmness, and elasticity shown in Figure 1.

Key Points for Customers:

Further detail regarding the decrease in enlarged pores and fine lines shown in Table 2.

Increased skin hydration, firmness, and elasticity
After two weeks of once-daily face mask use, the face mask containing 1% hydrolysed jopba esters increased skin hydration by genet train 20% (o<0.0001), skin firmness by just over \$% (o<0.001) versus the vehicle face mask (Fig. 1).

mask (Fig. 1).

Reduced enlarged
pores and fine lines
hydrolysed lyoba esters produced dramatic
measured by decreased relarged pore
counts) and reductions in the number of
fine lines after two weeks of noce-daily
face mask use (Table 2). The face mask
which contained 1% hydrolysed jojoba
esters performed statistically significantly
better (p<-0.05) than the vehicle (67%
of consumers versus 40%, respectively)
in reducing the number of fine lines.
Furthermore, 80% of the consumers
demonstrated a decrease in provi size when demonstrated a decrease in pore size using the face mask with 1% hydroly jojoba esters compared to only 56% of the consumers for the face mask without hydrolysed jojoba esters (p<0.05).

Consumer preference

information on the functional benefits of product, consumer perception data show whether or not consumers can realise the effects. The ability of 1% hydrolysed jojob esters to enhance consumer preference was evaluated on both non-face mask users and face mask users. Both groups are equally important; face mask users

demonstrate the expected standard in established markets, while non-face mask users show the growth potential in some or the less established markets, like the U.S. For the face mask users, the addition of 1% hydrolysed jojoba esters produced a 93% preference for overall face mask experience (Fig. 2). This group of consumers also indicated a statistically significant preference (p.<0.05) for the face mask with hydrolysed jojoba esters over the vehicle face mask for the following categories: overall product over the vehicle race mask no the following categories: overall product experience, absorbency of residual pro-into skin, pleasing texture of residual product on skin, overall product performance, less irritated skin, more

moisturised skin, smaller pore size, increased skin smoothness/softness, and more soothed/calmed skin (Figs. 2 & 3). For the non-face mask users, the addition of 1 % hydrolysed jojoba esters resulted in 88% preference for overall face mask experience (Fig. 5). This group of consumers also indicated a statistically significant preference (p<0.05) for the face mask with hydrolysed jojoba esters compared to the whelce for the following categories: overall product experience, lightness of residual product on so kin, overall product performance, lies irritated skin, decreased skin smoothness/softness, and more soothed/



Table 2: Enlarged pores and fine lines.					
Skin health parameter	Test article	Mean difference (count)	Subjects that showed a decrease (%)		
Enlarged pores	Vehicle +1% K-20W	-115	80%		
	Vehicle	-21	56%		
Fine lines	Vehicle +1% K-20W	-5	67%		
	Vehicle	2	40%		

Key Points for Customers:

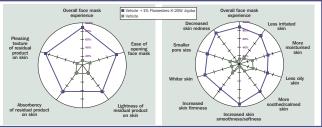
The face mask containing Floraesters K-20W Jojoba resulted in a greater preference for overall face mask experience and overall product performance for non-face mask users.

Key Points for Customers:

The face mask containing Floraesters K-20W Jojoba resulted in decreases in enlarged pores and fine lines.

Key Points for Customers:

The face mask containing Floraesters K-20W Jojoba resulted in a greater preference for overall face mask experience and overall product performance for face mask users.



pore size (hgs. ...

Conclusion
The non-voven industry, and more specifically face masks, is an industry that has only started to take off. Creating inrovative, functional face masks is a must to continue to gain consumer acceptance.

1 Oliphart I, Haiper R. Advantages of jopose stems in nonworse. Personal Care 2012: 5 (1): 94-6.

Figure 4: Overall frice mask uperaince (frice mask uperaince)

Calmed skin. Additionally, these consumers indicated a directionally significant preference (ir-Co.1.) for the face mask with preference (ir-Co.1.) for the face mask with plydrobjeed jolde actins of the following dategories: ease of opening the face masks, absorberoy of residual product ind skin, increased skin firmmess, and smaller prostee (Figs. 4 &5).

Conclusion

The non-woven industry, and more specifically face masks, is a must be continued to gain consumer acceptance.

References

1 (Ilighant T, Happer R, Advantages of joich and Charles (Journal J, 2014: 83.)

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2 (Injeant T, Happer R, Advantages of joich and Charles (Journal J, Journal J, 2014: 83.)

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