# Stepan

**Personal Care** 

Keeping a Close Eye on Sustainable Hair Performance

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### Agenda

The Sustainability Market

Stepan's Sustainable Hair Care Portfolio

Performance Targets & Substantiation

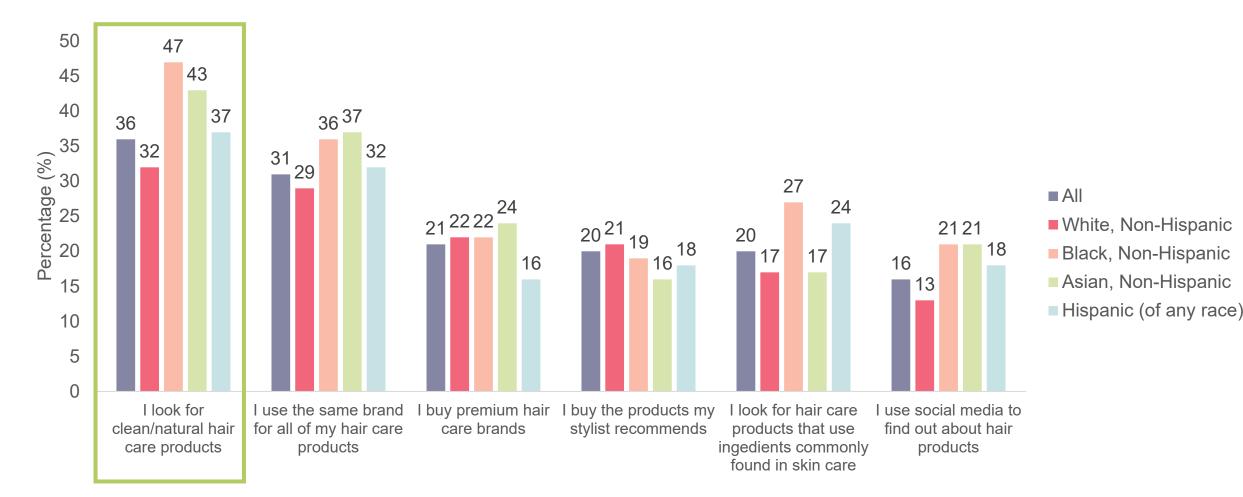


### The Sustainability Market



### **Sustainability for Consumers**

Clean/natural products top interest in hair care





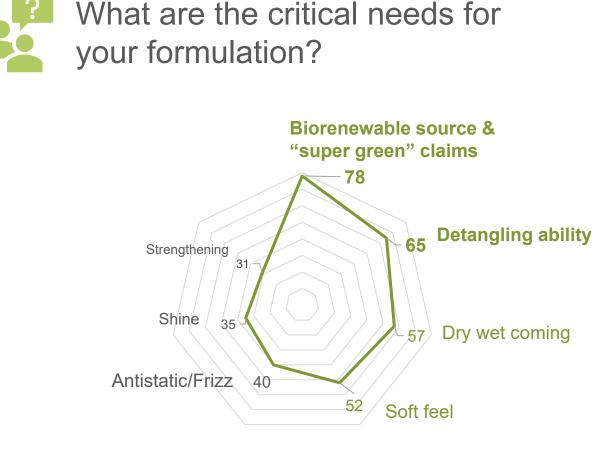
### **Sustainability for Brands**

Green & Natural ingredients top interest in hair conditioner marketing for Europe





### **Sustainability for Formulators**





Biorenewable source claims top the interest



Detangling ability comes as a 2<sup>nd</sup> critical need, even before dry and wet combability

The need for soft feel also records >50%



### **Sustainability for Formulators**

Top 3 issues formulators face when creating sustainable products





Lack of smooth and soft feel compared to conventional ingredients



Need to use higher percentage for performance, increasing formulation cost



Often difficult to formulate with

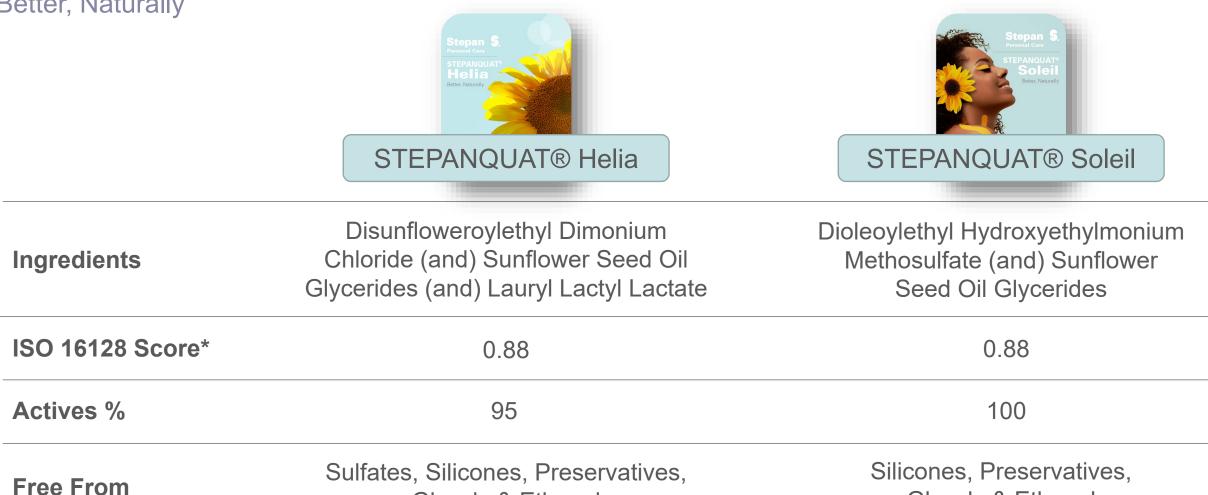


### **Stepan's Sustainable Hair Care Portfolio**



### **Next Generation Conditioning Agents**

Better, Naturally



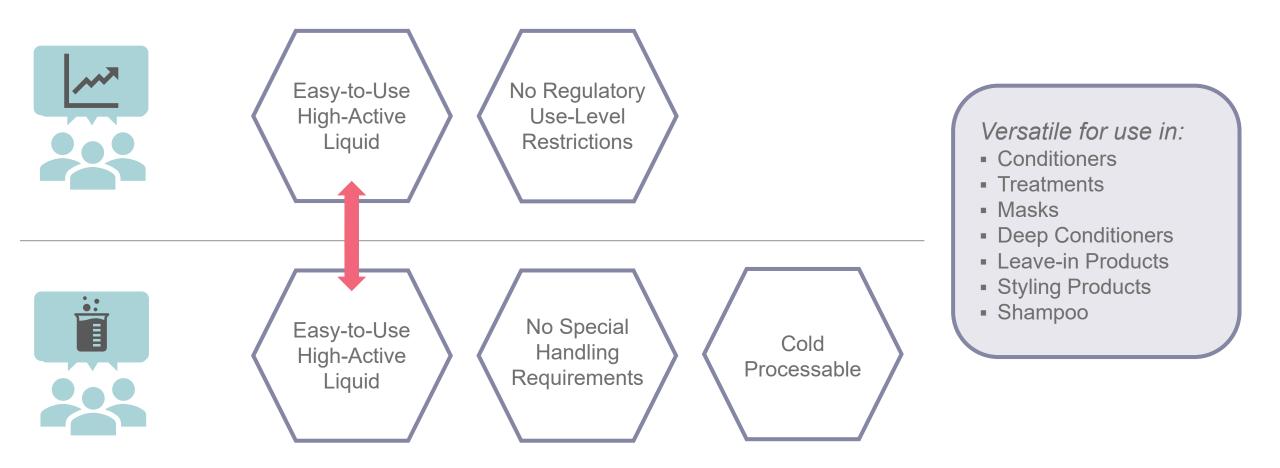
Glycols & Ethanol

**Glycols & Ethanol** 



### Easy-to-Use

Addressing the 1<sup>st</sup> and 2<sup>nd</sup> top issues formulators face with current sustainable solutions



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### Watch it in Action!





### Which One to Choose?

**STEPANQUAT Helia STEPANQUAT Soleil** Non-GMO, NA-Grown Non-GMO, EU-Grown Source Sunflower Oil Sunflower Oil Sulfate-Free Yes No **Global Compliance** Registrations Americas & Europe TSCA So...then what about performance? Renewable Biodegradable **Eco-friendly** Feedstocks Stepan

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### Performance Targets & Substantiation

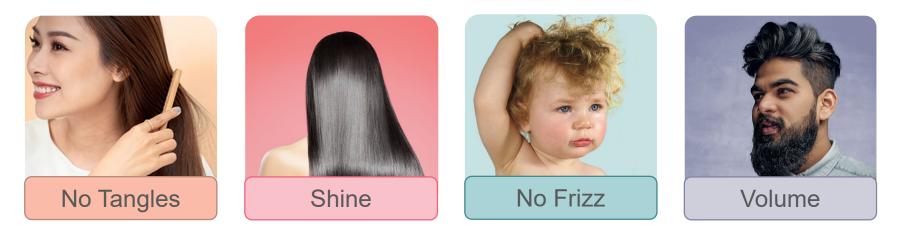


### **Performance Targets**





### **Substantiation**



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Instrumentation	Dia-Stron MTT690	BossaNova SAMBA	BossaNova BOLERO	BossaNova BOLERO	
Claims	Wet Combing Dry Combing	Shine	Frizz Reduction	Volume	
Output	Force Value	Luster Value Image Analysis	%Change Value Image Analysis	%Change Value Image Analysis	
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### **Experimental Details**

Ingredient	% by weight	
Deionized Water	q.s. to 100.0	
Hydroxyethylcelullose	0.7	
Conditioning Agent	2% active	
Cetyl Alcohol	2.0	
Potassium Chloride	0.5	
Sodium Hydroxide, 50% soln.	q.s.	
TOTAL	100.0	

Formulation adjusted to final pH of 3.5-4.5



Standardized Formula

Constant Concentration

#### Conventional Benchmarks

- BTAC
- CETAC





### **No Tangles**

STEPANQUAT Helia & STEPANQUAT Soleil outperform BTAC on multicultural hair

800 700 Tangles (gmf) (gmf) ) Peak Load 005 007 Caucasian <u> Jecreased</u> Asian Maximum 300 500 Multicultural 100 Ι CETAC Shampoo Blank **BTAC** Helia Soleil

Wet Detangling via Dia-Stron 2% Active Conditioning Agent



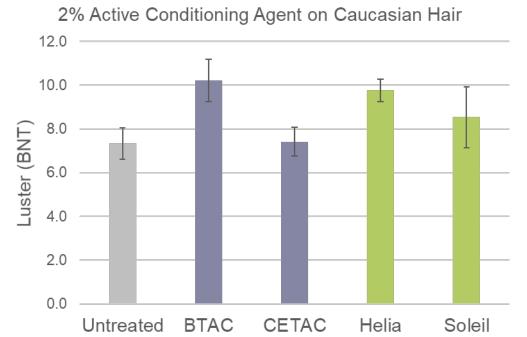
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Testing parameters = 3 tresses with 10 comb-through's each BTAC = Behentrimonium Chloride CETAC = Cetrimonium Chloride Helia = STEPANQUAT Helia Soleil = STEPANQUAT Soleil



### Shine STEPANQUAT Helia & STEPANQUAT Soleil perform equally to BTAC

Increased Shine Luster (BNT)



Shine via SAMBA



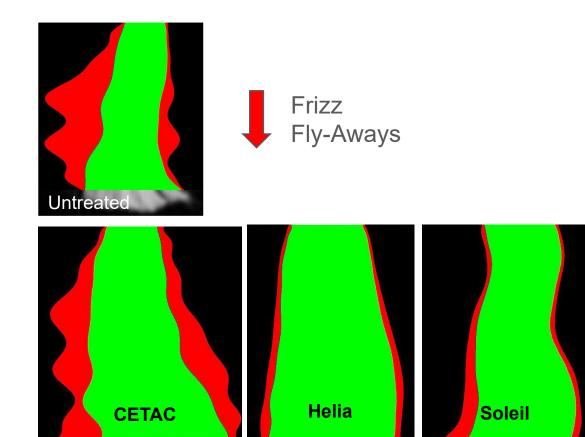




### No Frizz

STEPANQUAT Helia & STEPANQUAT Soleil outperform CETAC

Frizz Reduction via BOLERO 2% Active Conditioning Agent on Caucasian Hair 30.0 25.0 Frizz Control 20.0 % Change 15.0 10.0 5.0 0.0 CETAC BTAC Helia Soleil



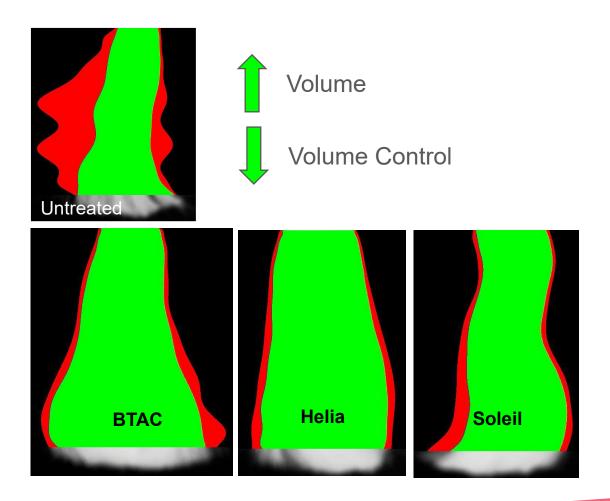


Testing parameters = 6 tresses with 10 measurements each



### **Volume** STEPANQUAT Helia & STEPANQUAT Soleil excel for textured hair care

Volume via BOLERO **Increased Volume** 2% Active Conditioning Agent on Caucasian Hair 15.0 -10.0 -5.0 Change % 0.0 **Volume Control** BTAC CETAC Helia Soleil -5.0 -10.0 --15.0 -



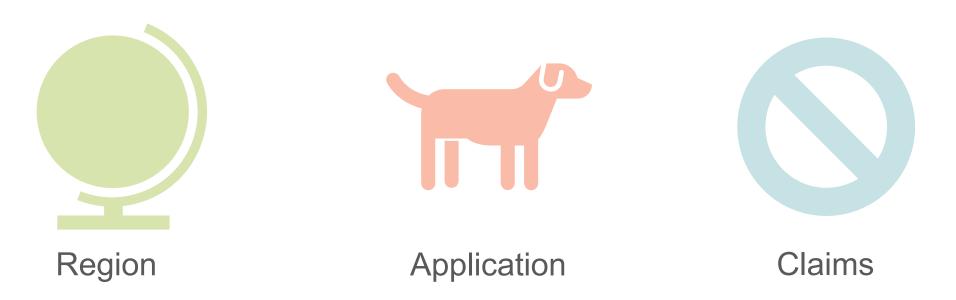


### **Performance is Equal**

Addressing the 3<sup>rd</sup> top issue formulators face with current sustainable solutions



Only Considerations Needed:





### **Next Generation Conditioning Agents**

Better, Naturally



### **Global Development**

Reach out to our formulation experts around the world



### **Resources Available**



#### **UL Prospector**

- Find product details
- Explore formulations
- Request samples
- Contact us





#### **Stepan's Website**

- Watch new videos
- Discover curated formulation collections
- Learn about our latest innovations

#### **Industry Events**

- Stop by at NYSCC Suppliers' Day
- Visit the Incosmetics Global virtual platform



## **Real-Time Support**

Take advantage of Stepan's Virtual Lab

Stepan's Virtual Collaboration Lab is available to you for live demonstrations or formulation troubleshooting!

- Reach out to your local sales representative
- Contact us through UL Prospector





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## **Thank you!**

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