



TC USA

# SYNTHETICS OF NATURAL ORIGIN

Product Catalogue 2020



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TC-USA Inc., is a proud member  
of the Tennant Group of  
Companies.



# ABOUT

TC USA designs and executes innovative ideas by consistently leveraging its global resources. Constantly assessing the market, identifying the trends and anticipating the consumer's needs, TC USA delivers unique solutions and stays ahead of the competition. Our expertise in ingredient development technologies and formulating knowhow, enables us to create customized solutions tailored to your specific requirements. We will take your concept and turn it into a market ready product.

## OUR ADVANTAGE

### PATENTED CHEMISTRY, BOUTIQUE SOLUTIONS

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We don't duplicate what other have already done. Our expertise in ingredient technology enables us to generate customized solutions for specific challenges. The majority of our ingredients are ECOCERT/COSMOS or pending and most are Patent protected.

## OUR ADVANTAGE

### FAST TO INNOVATE, FREEDOM TO EVALUATE

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We're a go-to partner for those in the know. Our ability to quickly assess the market and identify its needs allows us to deliver unique ingredients before the rest. Because we are proprietary and independent, we can quickly move from concept to product.

## OUR ADVANTAGE

### RELIABLE PARTNER, GLOBAL FOOTPRINT

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With our parent company, Tennant's Group (est. 1797) we have global resources and infrastructure to realize our innovative initiatives. Our ability to execute with accuracy and reliability makes us a valued partner globally.

# CORE COMPETENCY

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For more information on what our ingredients can do for you, contact us at: [salesinfo@tc-usa.com](mailto:salesinfo@tc-usa.com)

Functionalized natural sourced intermediates

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Enhance skin texture with natural complexes

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Apply natural chemistry to improve product properties

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Eliminate the use of synthetic ingredients

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Innovate natural product development solutions

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Design formulations to meet the new marketing trends

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## Discover brand-specific solutions at Concept to Reality Lab

Realize your concept, from idea to product. We bring your next natural product concept to reality. Learn more at <https://concepttorealitylab.com/>





# SULPHATE-FREE CLEANSING SYSTEM

CLEANSING

TI-  
GrnSurf®  
LCI

INCI: Water (Aqua) , disodium laureth sulfosuccinate, coco-betaine, sodium cocoyl isethionate, sodium lauryl sulfoacetate

TI-GrnSurf® LCI is a unique mixture of mild secondary surfactants, designed to achieve very good performance in cleansing formulations, providing a rich "lather type" creamy foam. It is ideal for use in shampoos for colour treated hair, its mildness helps contribute to colour retention. It has excellent compatibility with a variety of other surfactants, including natural soaps, and contributes to a soft after feel in bath preparations.



## KEY FEATURES

- Sulphate-free
- Produces rich stable "lather type" foam
- Compatible with natural soaps
- Aids in colour retention
- Compatible pH range 4.5 to 6.5

## TECHNICAL INFORMATION

Physical Form:	Viscous Liquid
Use Level:	20 - 30 %
Typical Solids:	34.5 %

## COMPLIANCE

REACH (Mixture)  
CHINA (IECIC)

## ISO 16128

C<sub>NO</sub> (+H<sub>2</sub>O)  
84.8%

C<sub>NO</sub> (+H<sub>2</sub>O)  
60.8%

# CASTOR OIL / DIMETHICONE POLYESTERS

CASTOR OIL

**Zenicone®  
IX**

INCI: PEG-8 Dimethicone, PEG-8 Ricinoleate

Zenicone® IX is a versatile non-ionic water and alcohol soluble polymer derived from castor oil, and dimethicone copolyol, that is very substantive to hair and skin, and is compatible with cationic and anionic surfactants systems. This unique compound has superb pigment wetting and dispersion properties and may be used in "spray-on" sun care applications. In O/W and W/O systems it acts as a coupler and improves the post rinse after-feel providing moisturizing properties in skin and sun applications.



## KEY FEATURES

- Water and alcohol soluble
- Film former, Moisturizer
- Anionic and cationic compatible
- Pigment wetter and dispersant
- O/W & W/O Coupler
- 100 % active polymer

## TECHNICAL INFORMATION

Physical Form: Liquid  
Use level: 0.25 - 4 %  
Molecular Weight: 2,200 Da

**COMPLIANCE** REACH (Polymer)  
CHINA (IECIC)

CASTOR OIL

**Zenicone®  
XX**

INCI: PEG-8 Dimethicone, PEG-8 Ricinoleate

Zenicone® XX is a multifunctional water and alcohol soluble polymer derived from castor oil, and dimethicone copolyol, that is nonionic and compatible with cationic and anionic surfactants systems. It acts as a coupler and goes in clear into formulations, providing an efficient delivery system to the skin and hair while helping to boost and stabilize foam. It also reduces drainage to produce creamier products and contributes to volumizing of hair in normal to oily shampoos.



## KEY FEATURES

- Water and alcohol soluble
- Film former, Moisturizer
- Anionic and cationic compatible
- Foam booster, stabilizer and coupler
- Volumizer
- 100 % active polymer

## TECHNICAL INFORMATION

Physical Form: Liquid  
Use level: 0.25 - 4 %  
Molecular Weight: 6,000 Da

**COMPLIANCE** REACH (Polymer)  
CHINA (IECIC)



# CASTOR OIL / DIMETHICONE POLYESTERS

CASTOR OIL

**Zenicone®  
XQ**

INCI: PEG-8 Dimethicone, PEG-8 Ricinoleate, Polyquaternium-57

Zenicone® XQ is a versatile multifunctional water and alcohol soluble cationic polymer derived from castor oil, a polyquaternium and dimethicone copolyol. It is very substantive to hair and skin, and acts as a coupler going into formulations clear. It is compatible with both cationic and anionic surfactants systems to produce clear multi-functional conditioning shampoo formulations. It helps to boost and stabilize foam while also reducing drainage to produce creamier products and contributing to volumizing of hair in normal to oily shampoos.

## KEY FEATURES

- Water and alcohol soluble
- Anionic and cationic compatible
- Foam booster, stabilizer and coupler
- Conditioning, detangling and volumizing
- Multi-functional clear shampoos
- 100% Active Polymer

## TECHNICAL INFORMATION

Physical form:	Liquid
Use Level:	0.25 - 4.0 %
Molecular Weight:	6,000 Da

<b>COMPLIANCE</b>	REACH (Polymer) CHINA (IECIC)
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CASTOR OIL

**Zenigloss®  
Q-SE**

INCI: Polyquaternium-57, PEG-8 Ricinoleate

Zenigloss® Q-SE is a self-emulsifying version of our natural cationic castor oil polymer (Zenigloss® Q). It provides substantive conditioning and gloss to hair, making ideal for conditioners, and performs very effectively on damaged (colour treated, permed, or bleached) hair, and is a superb detangler. The polymer is extremely mild and can be used for body washes, skin care applications, and hair care formulations such as In 2 in 1 shampoos, it has been found to outperform conventional ingredients in both wet and dry comb performance, as well as providing superb shine to the hair. The self-emulsifying properties result in an easy to use condition system that forms a stable emulsion when mixed into cold or warm water.

## KEY FEATURES

- Substantive conditioning to hair with no build up
- Compatible with anionic systems
- Improved shine to coloured & damaged hair
- Conditioner & detangler
- Good wet & dry combability
- Aids in colour retention on treated hair
- Self-emulsifying in cold & warm water
- 100% Active Polymer

## TECHNICAL INFORMATION

Physical form:	Liquid
Use Level:	0.4 - 4.0 %
Molecular Weight:	7,300 Da

<b>COMPLIANCE</b>	REACH (Polymer) CHINA (IECIC)
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<b>ISO 16128</b>	I <sub>no</sub> = 0.791
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# RASPBERRY SEED OIL / DIMETHICONE POLYESTERS

RASPBERRY SEED OIL

Zeniberry®  
R-XX



INCI: PEG-8 Dimethicone, PEG-8 Raspberriate

Zeniberry® R-XX is a unique water and alcohol soluble polymer derived from cold pressed raspberry seed oil, and dimethicone copolyol, that retains all the natural beneficial attributes of the oil, delivering them to the skin and hair. Its high molecular weight increases substantivity and creates a lubricious emollient feel in sun and skin applications. It improves volumizing and manageability in shampoos and acts as a coupler for the oil/water phase in skin care products and is perfect for clear gel type formulas and serums.

## KEY FEATURES

- Cold press Raspberry Seed Oil benefits
- Delivery system for Natural Antioxidants
- Film former, lubricious emollient
- Substantive to skin and hair
- Volumizer
- Ideal for gels and serums
- 100% Active Polymer

## TECHNICAL INFORMATION

Physical form:	Liquid
Use Level:	0.25 - 4.0 %
Molecular Weight:	6,000 Da

COMPLIANCE	REACH (Polymer)
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RASPBERRY SEED OIL

Zeniberry®  
R-XQ



INCI: PEG-8 Dimethicone, PEG-8 Raspberriate, Polyquaternium-57

Zeniberry® R-XQ is a unique and versatile multifunctional water and alcohol soluble cationic polymer derived from cold pressed raspberry seed oil, a polyquaternium and dimethicone copolyol. It is very substantive to hair and skin delivering the benefits unique to cold pressed raspberry seed oil and goes into formulations clear. It is compatible with both cationic and anionic surfactants systems to produce clear multi-functional conditioning shampoo formulations. It helps to boost and stabilize foam while also reducing drainage to produce creamier products and contributing to volumizing of hair in normal to oily shampoos.

## KEY FEATURES

- Cold press Raspberry Seed Oil benefits
- Delivery system for Natural Antioxidants
- Film former, lubricious emollient
- Foam booster, stabilizer and coupler
- Conditioning, detangling and volumizing
- Multi-functional clear shampoos
- 100% Active Polymer

## TECHNICAL INFORMATION

Physical form:	Liquid
Use Level:	0.25 - 4.0 %
Molecular Weight:	6,000 Da

COMPLIANCE	REACH (Polymer)
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# DIMER ACID / DIMETHICONE POLYESTERS

DIMER ACID

Zenester®  
S



INCI: PEG-8 Dimethicone / Dimer Dilinoleic Acid Copolymer

Zenester® S is a very high molecular weight polymeric silicone polyester derived from tall oil dimer fatty acid and dimethicone copolyol. It is highly lubricious and provides excellent wet combing, detangling and conditioning as well as superb skin feel when delivered from aqueous systems. It is water and alcohol soluble, goes into formulations clear and is compatible with both cationic and anionic systems, thereby providing versatility in formulating a wide range of personal care products. It is uniquely suited for carbomer based gel systems, where it provides emolliency and helps to reduce the "tacky" effect common with such systems.

## KEY FEATURES

- Water and alcohol soluble
- Film former, lubricious emollient
- Conditioning, detangling and wet comb
- Compatible with carbomer systems
- Reduces carbomer gel tackiness
- 100% Active Polymer

## TECHNICAL INFORMATION

Physical form:	Liquid
Use Level:	0.25 - 4.0 %
Molecular Weight:	25,000 Da

**COMPLIANCE** REACH (Polymer)

DIMER ACID

Zenester®  
ME



INCI: Bis-PEG-10 Dimethicone / Dimer Dilinoleate Copolymer

Zenester® ME is a very high molecular weight polymeric silicone polyester derived from tall oil dimer fatty acid and dimethicone copolyol. It is uniquely designed to form spontaneous micro-emulsions in water, is highly lubricious, and provides superb skin feel when delivered from aqueous systems. It is non-ionic and compatible with oil/water, water/oil, as well as anionic systems, thereby giving great flexibility in formulating a wide range of personal care products.

## KEY FEATURES

- Water and alcohol soluble
- Forms spontaneous micro-emulsion in water
- Film former, lubricious emollient
- O/W, W/O and anionic compatible
- 100% Active Polymer

## TECHNICAL INFORMATION

Physical form:	Liquid
Use Level:	0.25 - 4.0 %
Molecular Weight:	25,000 Da

**COMPLIANCE** REACH (Polymer)



## LEARN MORE \_

Simply scan, or visit our website to discover  
our products and formulations

**<https://www.tc-usa.com/>**

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