



TC USA

INGREDIENTS 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

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

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

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

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

Functionalized natural sourced intermediates

Enhance skin texture with natural complexes

Apply natural chemistry to improve product properties

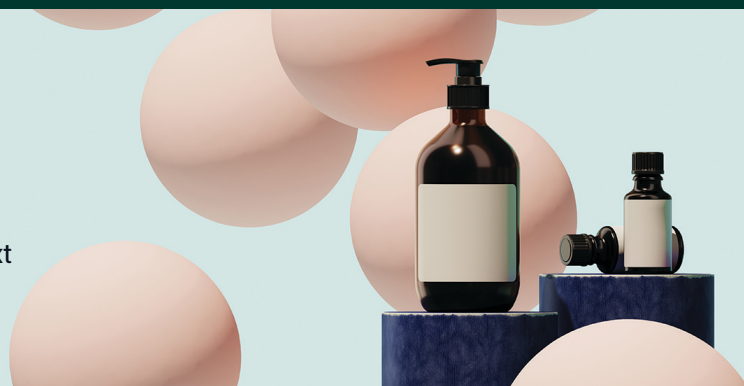
Eliminate the use of synthetic ingredients

Innovate natural product development solutions

Design formulations to meet the new marketing trends

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/>





FUNCTIONAL CLEANSING ADDITIVES

CLEANSING

**TI-NatSurf®
BW**

INCI: Aqua(Water), Decyl glucoside, Sodium myristoyl sarcosinate, Cocamidopropyl hydroxysultaine, Sodium cocoyl amino acids (apple)

TI-NatSurf® BW is a naturally derived, highly functional, cleansing complex designed to deliver ultra rich, sulphate free, creamy foaming properties for face, shampoos and elegant body wash products. This naturally derived cleansing complex can be utilized as a primary or secondary complex that will leave a soft feel on the skin, while meeting the demands of today's natural cleansing applications.

TI-NatSurf® BW is ideal for natural based sulphate free cleansing applications.



KEY FEATURES

- Produces rich stable "lather type" foam
- Ideal for oil containing body washes
- Ideal as a secondary system
- Mild, Sulphate and sulphonate free
- VOC, EO and DEA free

TECHNICAL INFORMATION

Physical Form:	Viscous Liquid
Use Level:	4 - 55 %
Typical Actives:	31 %
Typical Solids:	33 %

COMPLIANCE REACH (Mixture)
CHINA (IECIC)

ISO 16128 C_{NO} (+H₂O) 94.9 %
C_{NO} (-H₂O) 84.0 %

CLEANSING

**TI-NatSurf®
FHS**

INCI: Aqua (Water), Caprylyl/capryl glucoside, Sodium lauroyl sarcosinate, Decyl glucoside, Cocamidopropyl hydroxysultaine, Sodium cocoyl amino acids (apple)

TI-NatSurf® FHS is a naturally derived, highly functional, cleansing complex designed to deliver ultra rich, sulphate free, creamy foaming properties for hand and face products. This naturally derived cleansing complex can be utilized as a primary complex for water thin formulations, and micellar systems, that will leave a soft feel on the skin, while meeting the demands of today's natural cleansing applications.

TI-NatSurf® FHS is ideal for natural based sulphate-free cleansing applications.



KEY FEATURES

- Produces rich stable "lather type" foam
- Excellent flash foam
- Produces clear oil enriched systems
- Mild, Sulphate and sulphonate free
- VOC, EO and DEA free

TECHNICAL INFORMATION

Physical Form:	Liquid
Use Level:	5 - 34 %
Typical Actives:	31 %
Typical Solids:	34 %

COMPLIANCE REACH (Mixture)
CHINA (IECIC)

ISO 16128 C_{NO} (+H₂O) 94.7 %
C_{NO} (-H₂O) 83.6 %



FUNCTIONAL CLEANSING ADDITIVES

CLEANSING

**TI-NatSurf®
QCB**

INCI: Aqua (Water), Cocamidopropyl hydroxysultaine, Myristamine Oxide, Caprylyl/capryl glucoside, Decyl glucoside

TI-NatSurf® QCB is a naturally derived, highly functional, cleansing complex designed to deliver crystal clear natural oil containing cleansing systems for face and body. This naturally derived cleansing complex allows for the formulating of mild conditioning micellar waters, delivering enhanced cleansing, conditioning with post rinse after feel on the skin.

TI-NatSurf® QCB is ideal natural based sulphate-free cleansing application.



KEY FEATURES

- Produces clear oil enriched systems
- Produces high stable foam
- Designed for all-natural micellar water.
- Fully compatible with cationic systems.
- High electrolyte tolerance.

TECHNICAL INFORMATION

Physical Form:	Liquid
Use Level:	5 - 30 %
Typical Actives:	36 %
Typical Solids:	40 %

COMPLIANCE REACH (Mixture)
CHINA (IECIC)

ISO 16128 C_{NO} (+H2O) C_{NO} (-H2O)
86.3 % 64.7 %

CLEANSING

**Zenigloss®
Q**

INCI: Polyquaternium-57

Zenigloss® Q a natural branched polymer derived from castor oil. This high molecular weight cationic polymer provides substantive conditioning and gloss to hair, making it ideal for conditioners. It performs very effectively on damaged (colour treated, permed, or bleached) hair, and is a very good detangler. Zenigloss® Q is an extremely mild polymer and can be used for body washes, skin and hair care applications. In 2 in 1 shampoo, Zenigloss® Q has been found to outperform conventional silicone-based ingredients in both wet and dry comb performance, as well as gloss providing shine to the hair.



KEY FEATURES

- Substantive condition to hair with no build up with detangling benefit
- Compatible with anionic systems
- No reduction in foam
- Improved gloss to coloured & damaged hair, aids in colour retention
- Rich texture & ease of application
- Good wet & dry combability
- Extremely mild
- 100 % active polymer

TECHNICAL INFORMATION

Physical Form:	Viscous Liquid
Use Level:	0.4 - 4 %
Molecular Weight:	7,300 Da

COMPLIANCE REACH (Polymer)
CHINA (IECIC)

ISO 16128 I_{no} = 0.983



NATURAL FILM FORMING COMPLEXES

FILM FORMER

**ESSACHEM®
JP-C**

INCI: Jojoba esters

ESSACHEM® JP-C is a unique solid, Natural Sensory Complex™ derived from Jojoba seed designed to offer a solid to liquefying effect when spread on skin and hair that is extremely soft and non-greasy. The ESSACHEM® JP-C will offer exceptional texture and film forming properties for pigmented systems and melting creams that will not compromise the target skin sensory profile required in facial applications.

ESSACHEM® JP-C is an excellent alternative to silicon waxes to achieve “silicone-free” attributes.



KEY FEATURES

- All-natural water & sweat resistance
- All-natural light weight feel
- All-natural thickener
- 100 % active polymer

COMPLIANCE REACH (Polymer)
CHINA (IECIC)
COSMOS - Pending

TECHNICAL INFORMATION

Physical Form: Paste
Melt point: 40 - 50 °C
Use level: 2 - 8 %
Molecular Weight: 5,600 Da

ISO 16128 |_{no} = 1.000

FILM FORMER

Zenerbet®

INCI: Octyldodecyl Dimer Dilinoleyl Alcohol / Succinic Acid / Copolymer

Zenerbet® is a Guerbet polyester derived from naturally sourced ingredients. This 100% active branched liquid polymer is a hydrophobic ingredient that can be used in a variety of hair, colour, skin and sun care applications. This high molecular weight polymer offers all natural, film forming properties for skin and hair.



KEY FEATURES

- Liquid, oil soluble polymer
- Outstanding barrier properties
- Substantive to both skin and hair
- Hydrophobic
- 100 % active polymer

COMPLIANCE: ECOCERT (Cosmetic Raw Material)
REACH (Polymer)

TECHNICAL INFORMATION

Physical Form: Viscous Liquid
Use level: 0.5 - 10 %
Molecular Weight: 11,940 Da

ISO 16128 |_{no} = 0.965



NATURAL FILM FORMING COMPLEXES

FILM FORMER

Zenigloss®
S

INCI: Castor isostearate beeswax succinate

Zenigloss® S is an all-natural solid polymer derived from castor oil and beeswax that delivers exceptional film forming properties while maintaining a high impact gloss. This 100% active natural polymer also aids in thickening and structuring natural oils that can be used in a variety of hair, colour, skin and sun care applications. This high molecular weight polymer offers all natural, film forming properties for skin and hair.

Zenigloss® S is an all-natural solid glossing agent and thickener that is ideal as a silicone alternative for hair.



KEY FEATURES

- All-natural high impact glossing agent
- All-natural thickener & film former
- All-natural conditioner
- 100 % active polymer

TECHNICAL INFORMATION

Physical Form:	Solid
Melt Point:	55 - 65 °C
Use Level:	1 - 4 %
Molecular Weight:	7,200 Da

COMPLIANCE ECOCERT (Cosmetic Raw Material)
REACH (Polymer)

ISO 16128 $I_{no} = 0.989$

FILM FORMER

Zenigloss®
UP

INCI: Castor isostearate succinate

Zenigloss® UP is an all-natural liquid polymer derived from castor oil that delivers exceptional film forming properties with high impact gloss. This 100% active natural liquid polymer is a hydrophobic ingredient that can be used in a variety of hair, colour, skin and sun care applications. This high molecular weight polymer offers all natural, film forming properties for skin and hair.

Zenigloss® UP is an all natural glossing agent that is ideal as a silicone alternative for hair and lips.



KEY FEATURES

- All-natural high impact glossing agent
- All-natural film former
- All-natural pigment wetter
- 100 % active polymer
- Reduced odour version of Zenigloss®

TECHNICAL INFORMATION

Physical Form:	Viscous Liquid
Use Level:	0.5 - 4 %
Molecular Weight:	6,900 Da

COMPLIANCE ECOCERT (Cosmetic Raw Material)
REACH (Polymer)
CHINA (IECIC)

ISO 16128 $I_{no} = 0.962$



NATURAL FILM FORMING COMPLEXES

FILM FORMER

**Zenigloss®
UPH**

INCI: Castor isostearate succinate, hydrogenated castor oil

Zenigloss® UPH is an all-natural solid polymer derived from castor oil and castor wax that delivers exceptional film forming properties with high impact gloss. This 100% active natural polymer is a hydrophobic ingredient that can be used in a variety of hair, colour, skin and sun care applications. This high molecular weight polymer offers all natural, film forming properties for skin and hair.

Zenigloss® UPH is an all-natural film former that is ideal as a petrolatum alternative.

KEY FEATURES

- All-natural film former
- All-natural moisturizer
- Petrolatum alternative
- 100 % active polymer

TECHNICAL INFORMATION

Physical Form: Paste
 Melt Point: 58 - 68 °C
 Use Level: 0.5 - 4 %
 Molecular Weight: 6,900 Da

COMPLIANCE ECOCERT (Cosmetic Raw Material)
 REACH (Polymer)
 CHINA (IECIC)

ISO 16128 I_{no} = 0.973



FILM FORMER

Zenigloss®

INCI: Castor isostearate succinate

Zenigloss® is an all-natural liquid polymer derived from castor oil that delivers exceptional film forming properties with high impact gloss. This 100% active natural liquid polymer is a hydrophobic ingredient that can be used in a variety of hair, colour, skin and sun care applications. This high molecular weight polymer offers all natural, film forming properties for skin and hair.

Zenigloss® is an all natural glossing agent that is ideal as a silicone alternative for hair and lips.

KEY FEATURES

- All-natural high impact glossing agent
- All-natural film former
- All-natural pigment wetter
- SPF Booster
- 100 % active polymer

TECHNICAL INFORMATION

Physical Form: Viscous Liquid
 Use Level: 0.5 - 4 %
 Molecular Weight: 6,800 Da

COMPLIANCE ECOCERT (Cosmetic Raw Material)
 REACH (Polymer)
 CHINA (IECIC)

ISO 16128 I_{no} = 0.988





NATURAL MOISTURIZING COMPLEXES

MOISTURIZING

Butter Plus™

INCI: Octyl dodecanol, Euphorbia Cerifera (Candelilla) Wax, Isostearyl Isostearate, Stearyl Behenate, Polyhydroxystearic acid, Olea Europaea (Olive) Fruit Oil, Stearyl Alcohol, Behenic Acid, Stearyl Stearate, Cetyl Stearate

Butter-Plus™ is a new Natural Structured Butter Complex™, designed to provide effective barrier properties, combined with great moisturization and excellent emolliency. It is a soft and creamy paste, that begins to liquefy on skin contact, its melt profile provides outstanding spread and play time with excellent skin feel, without greasiness. Butter-Plus™ is also an excellent delivery system for incorporating essential oils into skincare preparations, providing extended stability, and aids in fragrance longevity. It's an elegant natural, all vegetable alternative to conventional types of moisturizers for a wide range of skin care, and sun care applications.



KEY FEATURES

- All vegetable moisturizer
- Non-greasy effect
- Liquifies on skin contact
- Outstanding spread and play time
- Extended stability with essential oils
- Aids in fragrance longevity
- Formulate custom butters

TECHNICAL INFORMATION

Physical Form: Soft Solid
 Melt Point: 45 - 60 °C
 Use Level: 1 - 10 %
 Actives: 100 %

COMPLIANCE COSMOS - Pending
 REACH (Mixture)
 CHINA (IECIC)

ISO 16128 I_{no} = 1.000

MOISTURIZING

Carnauba Butter®

INCI: Octyl dodecanol, Beeswax, Copernicia Cerifera (Carnauba) Wax

Carnauba Butter® is a Natural Moisturizing Complex™ derived from coconut oil, beeswax and carnauba wax yielding a natural moisturizer and film former with a soft silky spread. Carnauba Butter® has been specifically designed for skin care applications, requiring all natural moisturization. Carnauba Butter® is an ideal alternative to synthetic moisturizers.



KEY FEATURES

- All-natural deep moisturizer
- Non-greasy effect
- Auxiliary oil thickener

TECHNICAL INFORMATION

Physical Form: Solid
 Melt Point: 43 - 54 °C
 Use Level: 2 - 10 %
 Actives: 100 %

COMPLIANCE COSMOS (Raw Material)
 REACH (Mixture)
 CHINA (IECIC)

ISO 16128 I_n = 0.566 I_{no} = 1.000



COSMOS APPROVED



NATURAL MOISTURIZING COMPLEXES™

MOISTURIZING

Zenibee
Cream®

INCI: Octyl dodecanol, Beeswax

Zenibee Cream® is a soft Natural Moisturizing Complex™ derived from coconut oil and beeswax, yielding a natural moisturizer and film former with a soft silky spread. Zenibee Cream® has been specifically designed for skin care applications, requiring all natural moisturization. Zenibee Cream® is an ideal alternative to synthetic moisturizers.

KEY FEATURES

- All-natural deep moisturizer
- Non-greasy effect
- Liquifies on skin contact

TECHNICAL INFORMATION

Physical Form:	Solid
Melt Point:	35 - 45 °C
Use Level:	2 - 10 %
Actives:	100 %



COSMOS
APPROVED

COMPLIANCE COSMOS (Raw Material)
REACH (Mixture)
CHINA (IECIC)

ISO 16128 I_{no} = 1.000

MOISTURIZING†

Zeniveg®

INCI: Octyl dodecanol, Euphorbia Cerifera (Candelilla) Wax, Stearyl Behenate, Polyhydroxystearic acid, Behenic Acid, Cetyl Stearate, Stearyl Stearate

Zeniveg® is a soft and creamy all vegetable moisturizing complex from ingredients of natural origin. It is derived from fatty alcohols and various vegetable waxes, having a similar profile to beeswax. Zeniveg® provides excellent barrier and moisturizing qualities without the greasiness of conventional moisturizers. It has great skin feel, and starts melting on skin contact, giving it good transition and play time. Zeniveg® offers outstanding formulation flexibility in high water containing skin care emulsions, from light daily lotions to heavy moisturizing body butters.

KEY FEATURES

- All vegetable moisturizer
- Non-greasy effect
- Liquifies on skin contact
- Good transition and play time
- Outstanding formulation flexibility
- Ideal for formulating with fewer ingredients

TECHNICAL INFORMATION

Physical Form:	Solid
Melt Point:	49 - 59 °C
Use Level:	1 - 10 %
Actives:	100 %



COSMOS
APPROVED

COMPLIANCE COSMOS (Raw Material)
REACH (Mixture)
CHINA (IECIC)

ISO 16128 I_{no} = 1.000



NATURAL SENSORY COMPLEXES™

MOISTURIZING

**ESSACHEM®
AR-5**

INCI: Octyldodecyl Oleate, Argania Spinosa Kernel Oil.

The ESSACHEM® AR-5 is a new, Natural Sensory Complex™ designed to offer exceptional, dry sensory properties for skin and hair. This unique complex is an ideal complement, or substitute to traditional Argan oil in formulations that require fast absorption, lighter spreading properties without a greasy after feel. The ESSACHEM® AR-5 is an extremely dry Natural Sensory Complex™ is ideal as a silicone fluid alternative.



**COSMOS
APPROVED**

KEY FEATURES

- Extremely dry spread profile
- Reduces greasiness and tackiness
- Delivers soft natural gloss

TECHNICAL INFORMATION

Physical Form: Liquid
 Use Level: 1 - 9 %
 Actives: 100 %

COMPLIANCE COSMOS (Raw Material)
 REACH (Mixture)
 CHINA (IECIC)

ISO 16128 I_{no} = 1.000

MOISTURIZING

**ESSACHEM®
BW**

INCI: Behenyl Olivate

ESSACHEM® BW is a, solid Natural Sensory Complex™ derived from Olive oil, that will thicken oils, while leaving a soft silky after feel on spread. This Natural Sensory Complex™ is ideal for modifying the rheology properties in emulsions to enhance high temperature stability profiles.



**COSMOS
APPROVED**

KEY FEATURES

- Natural oil thickener
- High temperature stabilizer
- Non-greasy spread profile

TECHNICAL INFORMATION

Physical Form: Solid
 Melt Point: 50 - 60 °C
 Use Level: 2 - 8 %
 Actives: 100 %

COMPLIANCE COSMOS (Raw Material)
 REACH (UVCB)

ISO 16128 I_{no} = 1.000



NATURAL SENSORY COMPLEXES™



INCI: Octyldodecyl Olivat

The ESSACHEM® EH is a Natural Sensory Complex™ designed to offer lighter sensory properties than the ESSACHEM® O, for skin and hair. The ESSACHEM® EH is ideal to enhance the skin's moisturizing profile while providing the formulation with a soft natural complex to deliver a non-tacky after feel that will provide protection to the skin. This Natural Sensory Complex™ will also aid in dispersing inorganic materials for pigmented systems and sun care applications.

ESSACHEM® EH is your ideal, natural sensory additive for face and body applications.



KEY FEATURES

- A soft light after feel
- Excellent dispersing aid for pigmented systems
- Non-greasy, light texture

TECHNICAL INFORMATION

Physical Form: Liquid
 Use Level: 3 - 25 %
 Actives: 100 %

COMPLIANCE REACH (UVCB)
 CHINA (IECIC)

ISO 16128 I_{no} = 1.000



INCI: Jojoba esters

ESSACHEM® J is a unique jojoba dry, Natural Sensory Complex™ derived from Jojoba seed designed to offer an extremely soft, dry, sensory profile that is non-greasy for skin and hair applications. The ESSACHEM® J will offer dry sensory dispersing properties for inorganic materials that will not compromise the target texture required in facial applications.

KEY FEATURES

- Dry powdery spread
- Dry sensory dispersing properties
- Light conditioning for hair
- 100 % active polymer

TECHNICAL INFORMATION

Physical Form: Liquid
 Use Level: 3 - 25 %
 Molecular Weight: 1,200 Da

COMPLIANCE REACH (Polymer)
 CHINA (IECIC)

ISO 16128 I_{no} = 1.000





NATURAL SENSORY COMPLEXES™

MOISTURIZING

**ESSACHEM®
SM**

INCI: Water, Octyldodecyl Olivatate, Glycerin, Propanediol, Cocos Nucifera (Coconut) Water, Lecithin, Cocos Nucifera (Coconut) Fruit Juice, Glyceryl Caprylate, Glyceryl Undecylenate, preservative system*, Citric Acid

ESSACHEM® SM is a Natural Sensory Complex™, that is a water thin spray milk, derived from the Olive seed, that is infused with coconut water, coconut fruit juice and glycerin, for enhanced sensory and moisturization properties. This enriched olive milk delivers an exceptional spread which is light, fast absorbing, and ideal for delivering a soft silky feel in formulations for face, body, and hair.



KEY FEATURES

- Olive enriched skin feel
- Water thin for cold processing
- Exceptional Carrier of essential oils

TECHNICAL INFORMATION

Physical Form: Milk
 Use Level: 3 - 10 %
 Actives: 40 %
 Solids: 47 %

COMPLIANCE REACH (Mixture)
 CHINA (IECIC)

ISO 16128 C_{NO} (+H2O) C_{NO} (+H2O)
 98.0 % 96.2 %

* Refer to ingredient SDS or TDS for details on preservative system.

MOISTURIZING

**ESSACHEM®
O**

INCI: Octyldodecyl Olivatate

The ESSACHEM® O is a Natural Sensory Complex™ designed to offer exceptional sensory properties for skin and hair. The ESSACHEM® O is ideal to enhance the skin's moisturizing properties while providing the formulation with a natural complex to deliver a long lasting, non-tacky after feel that will provide protection to the skin. This Natural Sensory Complex™ will also aid in dispersing inorganic materials for pigmented systems and sun care applications.

ESSACHEM® O is your ideal, natural sensory additive for face and body applications.



**COSMOS
APPROVED**

KEY FEATURES

- A soft long lasting after feel
- Excellent dispersing aid for pigmented systems
- Non-greasy, medium texture

TECHNICAL INFORMATION

Physical Form: Liquid
 Use Level: 2 - 25 %
 Actives: 100 %

COMPLIANCE COSMOS (Raw Material)
 REACH (UVCB)
 CHINA (IECIC)

ISO 16128 I_{no} = 1.000



NATURAL SENSORY COMPLEXES™

MOISTURIZING

ESSACHEM®
SI

Proposed INCI: Plukenetia Volubilis Mixed Esters

ESSACHEM® SI is a new, ultra-dry Natural Sensory Complex™ derived from the Sacha Inchi Seed Oil, designed to deliver essential fatty acids. This super absorbing Natural Sensory Complex™ is enriched omega-3, 6 & 9 fatty acids combined with naturally occurring Vitamin-A and Vitamin-E (alpha & gamma-tocopherols).

ESSACHEM® SI is an ideal silicone fluid alternative enriched with natural skin protecting benefits.

KEY FEATURES

- Ultra-dry enriched spread
- Silicone fluid alternative
- Omega-3, Omega-6 & Omega-9
- Naturally occurring anti-oxidant properties

TECHNICAL INFORMATION

Physical Form:	Liquid
Use Level:	6 - 15 %
Actives:	100 %

COMPLIANCE **New Ingredient**
COSMOS (In Process)
REACH (In Process)
CHINA (Under Evaluation)

ISO 16128 $I_{no} = 1.000$



LEARN MORE ...

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

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