SPECIALTY PRODUCTS
Marketing Literature

- PROTACHEM ISL™
- PRO-AQUA ISL™
- PROTACHEM ISP™
- PROTACHEM CER™
- PROTAPHOS CES-P™
- PROCOL SA-21™
- PROTACHEM LL™
- PROTAQUAT ASP™
- PROTACHEM BSCB™
- PROCOL EBK™
- PROTACIDE PSP Blend™
- ALOE VERA *Specialties*
- PROTAMER™
- PROTACHEM SPCA™







Protameen Chemicals

PROTAMEEN CHEMICALS

PROTACHEM ISL™

INCI Name: Isostearyl Linoleate

PLANT-DERIVED ESTER

Superior Emolliency. Essential Moisture. Versatile Performance.



Protachem ISL™ (Isostearyl Linoleate) is a plant-derived ester with bifunctional properties (emolliency and moisturization).

It combines the non-occlusive lubricity of a branched chain monoester with the full-bodied, non-oily characteristics of a fatty acid ester to deliver exceptional skin feel and performance.

Protachem ISL supplies the essential fatty acid to the skin to help repair the Intercellular Moisture Barrier, increasing the intrinsic moisturization of skin and reducing TEWL.

It has excellent pigment dispersing properties and is compatible with a variety of cosmetic formulations. In sunscreen products, it can solubilize oil soluble sunscreen actives and helps reduce the oiliness often associated with these products while improving water resistance.

KEY BENEFITS

EXCELLENT EMOLLIENCY
Delivers a full-bodied, non-oily emollient feel with superior skin conditioning.

SUPPORTS SKIN BARRIER FUNCTION
Supplies essential linoleic acid to help repair the Intercellular Moisture Barrier and reduce TEWL.

PIGMENT DISPERSING PROPERTIES
Ideal for use in make-up, lip gloss, lipstick, mascara and blush formulations.

ENHANCES SUNSCREEN PERFORMANCE
Solubilizes oil soluble sunscreen actives and improves water-resistant properties.

IDEAL APPLICATIONS

- MAKE-UP & COLOR COSMETICS
- FACE CREAMS & MOISTURIZERS
- BODY LOTIONS & MOISTURIZERS
- SUNSCREEN & SUN CARE
- WATER RESISTANT SUNSCREEN FORMULATIONS
- LIP GLOSS, LIPSTICK, MASCARA & BLUSH

TYPICAL PROPERTIES*

Appearance:	Clear Yellow Liquid
Color (Gardner):	6 Maximum
% Water:	0.5 Maximum
Acid Value:	3 Maximum
Saponification Value:	95–115
Iodine Value (Hanus):	60–80

**Efficacy data available.*

Protachem ISL™ provides superior emolliency and barrier support—helping you create elegant textures and advanced personal care products your customers will love.

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Solutions for Personal Care Excellence

PRO-AQUA ISL™

INCI: Isostearet-200 Linoleate

WATER-SOLUBLE ESTER!

Bring Moisturization, Conditioning, and Shine to Water-Based Formulations



Pro-Aqua ISL™ is a unique water-soluble ester developed for formulators seeking enhanced moisturization, conditioning, shine, and sensory performance in surfactant and water-based systems. Readily water soluble and easy to incorporate, **Pro-Aqua ISL** expands formulation possibilities across a wide range of personal care applications.

WHY FORMULATORS CHOOSE PRO-AQUA ISL™

IMPROVES SKIN MOISTURIZATION
Helps improve skin moisturization.

ENHANCES SKIN CONDITIONING
Leaves skin feeling soft, smooth, and conditioned.

ADDS SHINE AND GLOSS
Improves shine in clear shampoos and styling products.

PLEASANT, LUBRICIOUS AFTER-FEEL
Provides a silky, lubricious feel in bath and body products.

READILY WATER SOLUBLE
Readily soluble for easy incorporation into water-based formulations.

EMULSIFIER / CO-EMULSIFIER
Functions as an emulsifier or co-emulsifier in O/W lotions and creams.

IDEAL APPLICATIONS



CLEAR SHAMPOOS



STYLING PRODUCTS



BODY WASHES & SHOWER GELS



SKIN CARE GELS



O/W LOTIONS & CREAMS



WATER-BASED PERSONAL CARE FORMULATIONS

TYPICAL PROPERTIES

Appearance:	Off-White Flakes
Color (Gardner):	3 Maximum
Moisture:	0.5% Max
Acid Value:	12 Max
Saponification Value:	5.0 – 10.0
Hydroxyl Value:	5.0 – 15.0



AVAILABLE IN A WAXY FLAKE FORM AND IS READILY WATER SOLUBLE.

Pro-Aqua ISL™ provides moisturization, conditioning, shine, and a pleasant after-feel in surfactant and water-based formulations—helping you create high-performance personal care products your customers will love.

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PROTACHEM ISP™

INCI: Isostearyl Palmitate

SATURATED EMOLLIENT & CO-SOLUBILIZER

✔ *Light Feel* • *Broad Compatibility* • *Superior Spreadability*



Protachem ISP™ is a non-comedogenic, saturated liquid emollient known for its exceptional skin feel, versatility, and stability in cosmetic and personal care formulations.

KEY BENEFITS

LIGHT & SILKY SKIN FEEL
Delivers a smooth, non-greasy emolliency.

EXCELLENT SPREADABILITY
Provides superior glide and improves application.

CO-SOLUBILIZER
Enhances solubility for silicones, waxes, sunscreens & actives.

VERSATILE & NON-COMEDOGENIC
Broad compatibility & excellent skin tolerability.

IDEAL APPLICATIONS

- Lip Care & Color Cosmetics
- Face Creams & Moisturizers
- Sunscreen & Sun Care
- Body Lotions & Moisturizers
- Stick & Solid Formulations
- Balms, Ointments & Multi-Purpose Products

TYPICAL PROPERTIES

Appearance	Clear Liquid
Moisture	0.5% Maximum
Acid Value	3% Maximum
Saponification Value	100 – 115
Iodine Value	2.0 Maximum

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PROTACHEM CER™

(CETYL RICINOLEATE)



Protachem CER (Cetyl Ricinoleate) is an emollient ester of Cetyl Alcohol and Ricinoleic Acid.

Derived from Castor Oil, a natural **Vegetable** based product, which exhibits an outstandingly light, yet lubricious feel.

NON-COMEDOGENIC
Non-irritating to the skin and has a neutral taste.

EXCELLENT MOISTURIZING
Melting point similar to skin temperature with excellent moisturizing properties.

SOFT, SMOOTH & SHINY
Provides a soft, smooth application with high shine.

NON-GREASY FEEL
Non-greasy feel similar to petrolatum but much less occlusive allowing the skin to breathe.

SUPERIOR PERFORMANCE
Excellent pigment wetting properties – Excellent film former.

TYPICAL PROPERTIES

Appearance @ 25°C:	Pale Yellow Soft Solid
Color (Gardner Scale):	6 Maximum
Moisture:	0.00 – 0.5% Maximum
Hydroxyl Value:	90 – 115
Saponification Value:	90 – 115
Acid Value:	5.0 Maximum
Iodine Value:	42 – 57



IDEAL APPLICATIONS



LIP STICK PRODUCTS



FACE & BODY MOISTURIZERS



MAKE-UP FORMULATIONS



FACIAL CLEANSERS & MAKE-UP REMOVERS



ANTI-AGING FACE CARE PRODUCTS



BALMS, OINTMENTS & MULTI-PURPOSE PRODUCTS

SUGGESTED APPLICATIONS:

PROTACHEM CER ™ n is a blend of fatty alcohol and phosphate esters and is offered in a free acid form.

FUNCTIONAL USE:

PROTACHEM CER - P can be neutralized to any desired pH with basic materials such as TEA, MEA, AMMONIA, SODIUM OR POTASSIUM HYDROXIDE.
PROTACHEM CER - P has use in a wide range of applications such as anionic, cationic, anionic-nonionic emulsifiers systems in skin and hair care, hair care, diol polyl care, imparting a pleasant, superior silky luxurious feel to the substrate of the skin.

KEY BENEFITS

LIGHT & LUBRICIOUS FEEL
Provides an outstandingly light, yet lubricious feel.

SKIN FRIENDLY
Non-comedogenic and non-irritating to the skin.

EXCELLENT COMPATIBILITY
Compatible with a wide range of cosmetic ingredients and formulations.

TYPICAL USE LEVEL: 3 – 6%
(Use levels as low as 3%)

Protachem CER™ delivers a lightweight, non-greasy emollient solution for high-performance personal care and cosmetic formulations.

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PROTAPHOS CES-P™

INCI : Cetearyl Alcohol (and) Dicetyl Phosphate (and) Ceteth-10 Phosphate



Properties:

Appearance @ 25°C	White to Off White Waxy Solid
Color, Gardner	1.0 Max
Odor	Characteristic
Melting Range °C	54 – 58

Acid Value mg KOH/gram	40.0 – 60.0
pH 2.0% (70-30 IPA-H2O)	2.0 – 3.5

Suggested Applications:

PROTAPHOS CES-P is a blend of fatty alcohol and phosphate esters and is offered in a free acid form.

Functional Use:

PROTAPHOS CES-P can be neutralized to any desired pH with basic materials such as TEA, MEA, AMMONIA, SODIUM OR POTASSIUM HYDROXIDE.

PROTAPHOS CES-P has use in a wide range of applications such as anionic-anionic, anionic-nonionic emulsifier systems in skin and hair care, hair care, and baby care, imparting a pleasant, superior silky luxurious feel to the substrate of the skin.

KEY FEATURES & BENEFITS

- Effective emulsifier for O/W systems
- Stable emulsions
- Versatile & easy to formulate
- Suitable for wide range of personal care formulations

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Procol SA-21

Steareth 21

A Versatile Emulsifier, Emollient & Wetting Agent



Derived from Stearic Acid, PROCOL SA-21 is **commonly used as an emulsifier** in personal care and cosmetic products.

With its high HLB value (15.5), PROCOL SA-21 can be used in **lotions, creams, pastes** and **stick products.**

PROCOL SA-21 is also used as a **wetting agent,** conditioner and solubilizer and works well in make-up preparations, fragrances, skin and hair care products.

TYPICAL SPECIFICATIONS

APPEARANCE (25°C)	:	WHITE WAXY SOLID OR POWDER
COLOR (GARDNER)	:	1 MAX
IR IDENTITY	:	MATCHES STANDARD
ACID VALUE	:	2.0 MAX
HYDROXYL VALUE	:	44 – 61
MOISTURE (%)	:	0.00 – 2.00 MAX
MELTING POINT	:	43° – 47°C

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PROTACHEM LL™

INCI Name: LAUROYL LYSINE



Protachem LL, derived from L-Lysine (an amino acid) and lauric acid, is a highly lubricious functional powder ideally suited for make-up products, pressed powders, loose powders, creams and lotions and hair care products.

The hydrophobic characteristic of **Protachem LL** improves the water resistance of make-up preparations and improves the flow and spreadability of oil/powder mixtures.

In hair care and skin care products, **Protachem LL** will act as a conditioning agent leaving skin and hair with a smooth and silky feel.

FEATURES & BENEFITS

- High lubricity / low frictional coefficient
- Natural / non-animal derived
- Surface modification (imparts hydrophobicity to hydrophilic powders)
- Antistatic effects
- Anti-oxidative properties
- Safe ingredient
- Skin and hair conditioner

Typical Use Level: 1–5%

IDEAL APPLICATIONS



PRESSED POWDERS



LOOSE POWDERS



CREAMS & LOTIONS



HAIR CARE PRODUCTS



SKIN CARE FORMULATIONS



COLOR COSMETICS

Protachem LL is a highly lubricious functional powder that enhances performance and sensory feel across a wide range of personal care formulations.

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PROTAQUAT ASP

Exceptional Conditioning & Softening for Hair Care Formulations



PROTAQUAT ASP is a balanced, ready to use concentrate for the manufacture of high quality creme rinses and hair conditioners at levels as low as 3%.

It is compatible with proteins, herbal extracts, esters and other specialties. **PROTAQUAT ASP** is mild to the eyes, skin and scalp and is the ideal conditioning and softening agent in hair care preparations.

KEY BENEFITS

- Excellent concentrate for creme rinses and hair conditioners
- Provides outstanding conditioning and softening
- Leaves hair soft, manageable and easy to comb
- Mild to eyes, skin and scalp
- Compatible with a wide range of ingredients including proteins, herbal extracts and esters

IDEAL APPLICATIONS


CREME RINSES


HAIR CONDITIONERS


CONDITIONNG TREATMENTS


HAIR MASKS


SALON QUALITY FORMULATIONS


MANAGEABLE, TANGLE FREE HAIR

For soft, healthy, beautiful hair every day.

FEATURES & SPECIFICATIONS

INCI Name:	Cetearyl Alcohol (and) PEG-40 Hydrogenated Castor Oil (and) Stearalkonium Chloride
Appearance @ 25°C:	White/Off-White Flake
% Activity as Cationic:	13.00 – 15.00
Melting Range (°C):	60 – 68
pH (1% Solution):	4.50 – 6.00
Color (Gardner):	3 Maximum

TYPICAL USE LEVEL: 3 – 6%
(Use levels as low as 3%)

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PROTACHEM BSCB™

INCI Name:

PEG-80 Sorbitan Laurate (and)
Sodium Trideceth Sulfave (and) Cocamidopropyl Betaine

SHAMPOO CONCENTRATE

The blend is specifically designed as a "mild" concentrate for shampoos and sensitive skin cleansing products.



PROTACHEM BSCB™ is a balanced, ready to use concentrate for the manufacture of high quality creme rinses and hair conditioners at levels as low as 3%.

It is compatible with proteins, herbal extracts, esters and other specialties. **PROTACHEM BSCB™** is mild to the eyes, skin and scalp and is the ideal conditioning and softening agent in hair care preparations.

THE BLEND CONSISTS OF THREE PRIMARY INGREDIENTS:

PEG-80 Sorbitan Laurate:
A mild cleansing agent and emulsifier.

Sodium Trideceth Sulfate:
An anionic surfactant used for cleaning.

Cocamidopropyl Betaine:
An amphoteric surfactant that enhances foam and reduces irritation.

KEY BENEFITS

- Excellent concentrate for creme rinses and hair conditioners
- Provides outstanding conditioning and softening
- Leaves hair soft, manageable and easy to comb
- Mild to eyes, skin and scalp
- Compatible with a wide range of ingredients including proteins, herbal extracts and esters

KEY APPLICATIONS & PROPERTIES

PRIMARY USE
Mainly used in mild shampoos and body wash products due to its gentle nature.

FORMULATION ROLE
Acts as a concentrated base that provides high foaming properties while maintaining extreme mildness.

USER BENEFIT
Formulated to be non-irritating to the eyes.

MILD & GENTLE
Specifically designed for sensitive skin cleansing products.

COST EFFECTIVE
A cost effective mild surfactant blend.

IDEAL APPLICATIONS


MILD SHAMPOOS


BODY WASHES


SENSITIVE SKIN CLEANSERS


BABY CARE PRODUCTS


DAILY CLEANSING PRODUCTS


FOAMING FORMULATIONS

Protachem BSCB™ provides a mild, high foaming solution—helping you create gentle and effective cleansing products that your customers will love.

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PROCOL EBK

(emulsifying blend)





Procol EBK is a blend of balanced O/W emulsifiers. This blend can emulsify up to **3 times** its weight in oil.

The primary use of **Procol EBK** is in Cosmetic and Personal Care Products such as creams, lotions, and conditioners.

Procol EBK can be used as a thickener, viscosity controlling agent, and foam controlling agent for many cosmetic preparations.

Since **Procol EBK** is non-ionic/anionionic in nature, it is compatible with most surfactants.

INCI:

Cetearyl Alcohol (and) Glyceryl Stearate (and) Glycol Stearate (and) TEA-Stearate



SPECIFICATIONS

Appearance @ 25°C:	Off-White Flakes or Pastilles
Odor:	Slight, Characteristic, Organoleptic
pH (1%):	**7.50 – 8.50**
Acid Value:	**30.00 – 60.00**
Iodine Value:	**0.00 – 3.00**
Melting Point, °C:	**60.00 – 70.00**
Saponification Value (mg KOH/g):	**100.00 – 115.00**

KEY BENEFITS

- Emulsifies up to 3 times its weight in oil
- Thickening & viscosity control
- Excellent foam control
- Compatible with most surfactants
- Non-ionic/ anionionic nature

RECOMMENDED APPLICATIONS



SHAMPOOS & CONDITIONERS



FACE SERUMS & CREAMS



BODY LOTIONS & CREAMS



BATH & BODY PRODUCTS

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PROTACIDE PSP BLEND™

BROAD-SPECTRUM PRESERVATIVE SYSTEM

Protacide PSP Blend is a broad-spectrum preservative blend based on **Phenoxyethanol, Sodium benzoate** and **Potassium sorbate.**

Protacide PSP Blend combines the antibacterial activity of Phenoxyethanol with the antibacterial/antifungal activity of Sodium benzoate and the antifungal activity of **Potassium sorbate.**

This combination is highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts and moulds.

PRODUCT FEATURES & BENEFITS

- Broad-spectrum preservation
- Effective against Gram-positive & Gram-negative bacteria
- Protection against yeasts & moulds
- Soluble in water, alcohols and glycols
- Tolerates working temperatures up to 80°C
- Very mild to skin
- Suitable for rinse-off and leave-on applications
- Effective pH range: 3.0 – 6.0

For this blend to be effective, the pH of final formulation should range from **3.0 to 6.0.**

Protacide PSP Blend is soluble in water, alcohols, and glycols.

Protacide PSP Blend will tolerate working temperatures up to 80°C.

Protacide PSP Blend is very mild to the skin, and can be used in aqueous systems or emulsions for rinse-off and leave-on applications.

IDEAL FOR A WIDE RANGE OF PERSONAL CARE APPLICATIONS


BABY CARE PRODUCTS



SUN CARE / SUNSCREENS


FACE SERUMS & CREAMS


SHAMPOOS & CONDITIONERS


BATH & BODY PRODUCTS


HAIR CARE PRODUCTS

COMPOSITION (TYPICAL)

Component	CAS No.	EC No.	% w/w
Phenoxyethanol	122-99-6	204-589-7	80.0 – 85.0%
Water	7732-18-5	7732-18-5	10.0 – 15.0%
Potassium Sorbate	24634-61-5	590-00-1	2.0 – 3.0%
Sodium Benzoate	532-32-1	208-534-8	2.0 – 3.0%

TYPICAL APPLICATIONS INCLUDE:

- **Hair care:** gels, shampoos, lotions, conditioners, mousses.
- **Body & face care:** serums, tonics, gels, lotions, creams, masks, wipes.
- **Make-up:** foundations, wipes, powders.
- **Shaving products:** shave soaps, gels, aftershave balms, lotions, creams.
- **Sun products:** sunscreens, suntans, after-sun.
- **Bath products:** shower gels, bubble baths, hand-cleaners, powders, wipes.
- **Baby care:** shampoos, bath products, lotions, creams, oils, powders, wipes.

TYPICAL USE LEVEL: 0.50 – 1.0%

In this range no additional preservatives are required.

WATER SOLUBLE | MILD TO SKIN | HEAT STABLE UP TO 80°C | AQUEOUS SYSTEMS & EMULSIONS | RINSE-OFF & LEAVE-ON

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ALOE VERA SPECIALTIES



Premium Aloe Vera Ingredients for Superior Personal Care Formulations

WHY CHOOSE ALOE VERA?

NATURALLY POWERFUL
Sourced from premium Aloe Vera for optimal purity and performance.

VERSATILE SOLUTIONS
A wide range of formats to meet diverse personal care needs.

RELIABLE QUALITY
Consistent, high-quality ingredients backed by science and expertise.

FORMULATED FOR YOU
Ideal for skincare, haircare, cosmetics and wellness applications.



ALOE VERA

	PRODUCT NAME	INCI NAME	NOTES
JUICES & CONCENTRATES	AC002	*Aloe Barbadensis Leaf Juice*	*Aloe Vera Gel Decolorized 1X*
	AC003	*Aloe Barbadensis Leaf Juice*	*Aloe Vera Gel Regular 1X*
	AC011	*Aloe Barbadensis Leaf Juice*	*Aloe Vera Gel Regular 200X*
	AC110	*Aloe Barbadensis Leaf Juice*	*Aloe Vera Gel Decolorized 10X*
	AC115	*Aloe Barbadensis Leaf Juice*	*Aloe Vera Gel Decolorized 40X*
	AC140	*Aloe Barbadensis Leaf Juice*	*Aloe Vera Gel Regular 40X*
	AO101	*Aloe Barbadensis Leaf Juice*	*Aloe Vera concentrate*
	AO115	*Aloe Barbadensis Leaf Juice*	*Aloe Vera concentrate*
POWDERS	AC540HT	*Aloe Barbadensis Leaf Juice*	*Natural Aloe Vera powder 200X*
	AFV002	*Aloe Barbadensis Leaf Juice*	*Freeze dried Aloe Vera powder Decolorized 40X*
	TOO12	*Aloe Barbadensis Leaf Juice*	*Spray dried Aloe Vera powder Decolorized 100X*
	TOO13	*Aloe Barbadensis Leaf Juice*	*Spray dried Aloe Vera powder Regular 100X*
	TOO15	*Aloe Barbadensis Leaf Juice*	*Freeze dried Aloe Vera powder Decolorized 100X*
	TOO90	*Aloe Barbadensis Leaf Juice*	*Spray dried Aloe Vera powder Regular 200X*
	TN003	*Aloe Barbadensis Leaf Juice*	*Freeze dried Aloe Vera powder Decolorized 100X*
	TN301 CR	*Aloe Barbadensis Leaf Juice*	*Spray dried Aloe Vera powder Regular 400X Certified Organic*
	TN301 CR	*Aloe Barbadensis Leaf*	*Freeze dried Aloe Vera powder Decolorized 200X Non-processed Certified Organic*
	WL002	*Aloe Barbadensis Leaf*	*Spray dried Aloe Vera powder 100X Certified Organic*
	WL006	*Aloe Barbadensis Leaf*	*Freeze dried Aloe Vera powder 100X Certified Organic*
WHOLE LEAF POWDERS	WLC001	*Aloe Barbadensis Leaf*	*Whole leaf Aloe Vera 1X*
	WLC002	*Aloe Barbadensis Leaf*	*Whole leaf Aloe Vera 2X*
	WLC003	*Aloe Barbadensis Leaf*	*Whole leaf Aloe Vera 4X*
	WLC004	*Aloe Barbadensis Leaf*	*Whole leaf Aloe Vera 6X*
	WLC005	*Aloe Barbadensis Leaf*	*Whole leaf Aloe Vera 8X*
	WLC200	*Aloe Barbadensis Leaf*	*Whole leaf Aloe Vera 200X*
SPECIALTY EXTRACTS	AB001	*Glycerin & Glyceryl Hydroxystearate & Cetearyl Alcohol & Aloe Barbadensis Leaf Juice*	*Aloe Moist EM-12*
	Aloe Butter	*Cocos nucifera / Aloe Barbadensis Leaf Extract*	*Aloe Vera Extracted Butter*
	Sheabee	*Butyrospermum Parkii (Shea Butter) / Aloe Barbadensis Leaf Extract*	*Aloe Vera Gel blend*

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Scientifically Backed.
Beautifully Effective.

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Solutions for Personal Care Excellence

PROTAMER™

THICKENING AGENTS AND RHEOLOGY MODIFIERS

Protameen	INCI	Fect	Products
Protamer C-934	Carbomer	Go-to industry standard, high viscosity, short flow, opaque	Lotions, Creams, Color Cosmetics
Protamer C-940	Carbomer	Go-to industry standard, high viscosity, short flow, clear	Clear Gels, Lotions, Creams, Styling Products, Color Cosmetics, SPF
Protamer C-941	Carbomer	Go-to industry standard, low viscosity, long flow, clear	Clear Gels, Lotions, Creams, Sprays
Protamer C-980	Carbomer	High Viscosity, short flow, clear, No Benzene	Clear Gels, Lotions, Creams, Styling Products
Protamer C-981	Carbomer	Low viscosity, long flow, clear, No Benzene	Clear Gels, Lotions, Creams, Sprays
Protamer C-2020	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	High clarity, high viscosity	Rheology, Viscosity Increasing, Emulsion Stabilizer
Protamer Z-10	Carbomer	Self-wetting, high clarity, medium flow, high viscosity	Clear Gels, Surfactant Systems, Lotions, Creams
Protamer Z-20	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Self-wetting, high clarity, medium viscosity, electrolyte tolerance	Clear Gels, Lotions, Creams, Mild Cleansers, Styling Products, SPF
Protamer Z-21	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Self-wetting, thickening and high stabilization, works with alcohol and water	Clear Gels, Hydroalcoholic Gels, Lotions, Creams, Sprays, SPF
Protamer LG-1	Acrylates Copolymer	Liquid polymer, pH flexible, clear, enhances gel and resin in surfactant systems	Clear Gels, Surfactant Systems, Lotions, Creams, Conditioners, High Electrolyte Systems
Protamer PE-1	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Stabilizes oil in water systems with up to 20% oil	Emulsion Systems, moderate oil content
Protamer PE-2	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Stabilizes oil in water systems with up to 50% oil	Emulsion Systems, high oil content



IDEAL FOR YOUR HAND SANITIZER FORMULATIONS

CARBOMER



ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER



ACRYLATES COPOLYMER





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PROTAMEEN CHEMICALS

Protachem SPCA™

INCI Name: Sodium PCA – 50%

High Performance Humectant for Superior Moisturization



PRODUCT DESCRIPTION

Protachem SPCA is the sodium salt of 2-pyrrolidone-5-carboxylic acid, enzymatically derived from glutamic acid (an amino acid) and is sold as a **50% aqueous solution**.

Commonly referred to as the Natural Moisturizing Factor, Sodium PCA occurs naturally in human skin and is responsible for binding moisture to the cells.

Sodium PCA is a high performance humectant that can hold several times its weight in water.

These water binding properties make Protachem SPCA an ideal moisturizer for skin and hair care products.

FEATURES AND BENEFITS

- Found in skin and plays the role of a natural moisturizing factor ingredient.
- Extremely hygroscopic and imparts a pleasant moist feeling to skin and hair.
- Increases softness and elasticity of skin and hair.
- Good anti-static agent for hair care products.
- Stable in a broad range of temperature and pH.
- Rapidly biodegradable.
- Use in skin care, hair care, sun care and color cosmetic products.
- Typical Use Level: 1–5%

Note: *Do not use this product in formulas containing N-nitrosating agents.*

SPECIFICATIONS

Appearance:
Clear colorless to pale Yellow liquid

Nitrogen Content (%):
4.45 – 4.82

pH @ 25°C:
6.8 – 7.4

Specific Gravity:
1.250 – 1.300

Solids (%):
48 to 52

NATURALLY MOISTURIZING FACTOR

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