

Interpolymer offers several suggested formulations for Syntran[®] PC 5208.

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** Samples readily available

SCULPTING AND SMOOTHING CRÈME

Formulation F-18-48-01.208

High-tech sculpting and smoothing crème can be applied to wet or dry hair. Flexible hold formula shapes hair for sleek-straight look or natural looking curls/waves. Instantly restores moisture and natural oils to dry hair. Creates ultra-glossy finish, smoothes away frizz and fights high humidity.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|---|--|-----------------|
| Phase A—Heat to 75°C | | |
| Distilled Water | Water | 73.55 |
| Propylene Glycol | Propylene Glycol | 5.00 |
| SYNTRAN PC 5208 | Polyacrylate-15 | 4.00 |
| Phase B—Heat to 75°C | | |
| Finsolv TN (Finetex) | C12-15 Alkyl Benzoate | 3.00 |
| Dow Corning 200 Fluid 20 cst (Dow Corning) | Dimethicone | 1.50 |
| Dow Corning 200 Fluid 200 cst (Dow Corning) | Dimethicone | 1.00 |
| Jojoba Oil (Floritech) | Simmondsia Chinensis Seed Oil | 3.00 |
| Protachem SMO (Protameen) | Sorbitan Oleate | 0.20 |
| Parsol MCX (Roche) | Ethylhexyl Methoxycinnamate | 1.00 |
| Lipowax D (Lipo) | Cetearyl Alcohol & Cetareth-20 | 2.00 |
| Schercemol 105 (Scher) | Isocecyl Neopentanoate | 2.00 |
| Cetearyl Alcohol 50/50 | Cetearyl Alcohol | 1.50 |
| Phase C | | |
| Rapithix A-60 @ 52°C (ISP) | Sodium Polyacrylate, Hydrogenated Polydecene, Trideceth-6 | 1.50 |
| Phase D | | |
| Liquid Germall Plus @ 45°C (ISP) | Diazolidinyl Urea, IPBC | 0.70 |
| Fragrance | Fragrance | 0.05 |
| | YIELD: | <u>100.00%</u> |

Procedure

Add purified water to main vessel and begin heating to 75°. Begin moderate propeller stirring and add propylene glycol and **Syntran PC 5208**. In a separate vessel add Phase B ingredients and melt at 75-80°C. Stir until homogenous. Add Phase B to Phase A with high shear stirring. Cool batch to 50°C. Add Phase C, as batch thickens switch to side sweep agitation. Continue to cool batch to 40-45°C. Individually add Phase D ingredients. Stir and cool batch to room temperature.

Appearance: Slightly viscous, white creme

Final pH = 8.99.

9/04

SULFATE-FREE TEXTURIZING SHAMPOO WITH DETANGLING
Formulation F-18-75

This mild "sulfate-free" conditioning shampoo with rich, luxurious lather not only gently cleanses "fragile" chemically processed hair but protects the hair from color "wash-out". Unique combination of Olefin/Graft and Conditioning polymers create a complex on the hair surface to lock color and shine into the hair. Keep that first day color longer. Extend the time between color treatments.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|------------------------------|---|-------------------|
| Phase A—Heat to 75°C | | |
| Distilled Water | Water | 43.00 |
| Dissolvine Na2S (Akzo Nobel) | Disodium EDTA | 0.10 |
| Stepan Mild LSB (Stepanl) | Sodium Lauryl Sulfoacetate, Disodium Laureth Sulfosuccinate | 30.00 |
| Capmul S12L(Abitec) | Sodium Lauroyl Lactylate | 2.00 |
| Amphosol HCG (Stepan) | Cocamidopropyl Betaine | 6.00 |
| Tauranol I-78 C (Finetex) | Sodium Cocoyl Isethionate | 5.00 |
| Mackamide CMA (McIntyre) | Cocamide MEA | 1.00 |
| Crothix (Croda) | PEG-150 Pentaerythrityl Tetrastearate | 0.35 |
| Glycol Stearate | Glycol Stearate | 0.50 |
| Phase B—Add at 60°C | | |
| Syntran PC 5208 | Polyacrylate-15 | 6.00 |
| Syntran PC 5100 | Polyacrylate 21 (and) Acrylates/ Dimethylaminoethyl Methacrylate Copolymer | 1.50 |
| Ritapan D,L (RITA) | Panthenol | 0.50 |
| Syntran PC 5320 | Polyquaternium-37 | 2.00 |
| Fancorsil LIM-1 (Fancor) | Dimethicone PEG-8 Meadowfoamate | 1.00 |
| Phase C—Add at 40°C | | |
| Germall Plus (ISP) | Diazolidinyl Urea, IPBC | 0.35 |
| Fragrance | Fragrance | 0.30 |
| TEA 99%, N.F. (Dow) | Triethanolamine | 0.40 |
| | | Adjust pH to 6.10 |
| | YIELD: | 100.00 |

Procedure

Heat Phase A ingredients to 75-80°C with moderate agitation. Stir at 75-80°C until homogeneous. Cool slowly with moderate agitation to avoid aeration to 55°C. At 55°C, individually add each Phase B ingredient to main batch with continuous agitation until a homogenous mixture is obtained. Cool slowly with moderate agitation to avoid aeration to 40-45°C, individually add Phase C ingredients to batch, stir between each addition until homogenous. Adjust pH of batch between 6.0-6.3.

Appearance: White, creamy, medium viscosity shampoo.

TEXTURIZING SHAMPOO

Formulation F-18-76

This shampoo with rich, thick lather not only cleanses hair but volumizes and texturizes fine limp hair. Unique combination of Olefin/Graft and Bimodal polymers surround and support each strand to give root-lift, manageability and excellent shine to lifeless hair. This texturizing shampoo formula adds style-support and texture while leaving hair with a clean, natural feel.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|-------------------------------|---|-----------------|
| Phase A—Heat to 75°C | | |
| Distilled Water | Water | 43.17 |
| Dissolvine Na2-S (Akzo Nobel) | Disodium EDTA | 0.10 |
| Steol CS-230 (Stepan) | Sodium Laureth Sulfate | 16.00 |
| Stepanol AM (Stepan) | Ammonium Lauryl Sulfate | 14.00 |
| Amphosol HCG (Stepan) | Cocamidopropyl Betaine | 8.00 |
| Tauranol I-78 C (Finetex) | Sodium Cocoyl Isethionate | 5.00 |
| Mackamide CMA (McIntyre) | Cocamide MEA | 1.00 |
| Crothix (Croda) | PEG-150 Pentaerythrityl Tetrastearate | 0.25 |
| Glycol Stearate | Glycol Stearate | 0.50 |
| Phase B—add at 60°C | | |
| SYNTRAN PC 5208 | Polyacrylate-15 | 6.00 |
| SYNTRAN PC 5100 | Polyacrylate 21 (and) Acrylates/ Dimethylaminoethyl Methacrylate Copolymer | 1.50 |
| Ritapan DL (RITA) | Panthenol | 0.75 |
| SYNTRAN PC 5320 | Polyquaternium-37 | 2.00 |
| Fancorsil LIM-1 (Fancor) | Dimethicone PEG-8 Meadowfoamate | 1.00 |
| Phase C—add at 40°C | | |
| Germall Plus (ISP) | Diazolidinyl Urea and IPBC | 0.35 |
| Fragrance | Fragrance | 0.30 |
| Citric Acid | Citric Acid | 0.08 |
| | YIELD: | 100.00% |

Procedure

Heat Phase A ingredients to 75-80°C with moderate agitation. Stir at 75-80°C until homogeneous. Cool slowly with moderate agitation to avoid aeration to 55°C. At 55°C, individually add each Phase B ingredient to main batch with continuous agitation until a homogenous mixture is obtained. Cool slowly with moderate agitation to avoid aeration to 40-45°C, individually add Phase C ingredients to batch, stir between each addition until homogenous. Adjust pH of batch between 5.5-6.5.

STYLING GEL
Formulation F-18-85

A styling aide with medium control that smoothes hair and locks in a sleek, straight look. The formula is a light cream or gel. The package will be a pump or spray.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|------------------------------|-------------------------------------|-----------------|
| Phase A | | |
| Distilled Water | Water | 86.20 |
| Dissolvine Na2S (Akzo Nobel) | Disodium EDTA | 0.05 |
| Glycerin | Glycerin | 5.00 |
| Ultrez 21 (Noveon) | Acrylates/C10-30 Alkyl Acrylate | |
| | Crosspolymer | 0.70 |
| TEA 99% | Triethanolamine | 0.70 |
| Phase B | | |
| SYNTRAN® PC 5208 | Polyacrylate-15 | 2.00 |
| SYNTRAN® PC 5400 | Ammonium Acrylates Copolymer | 4.50 |
| Phase C | | |
| Liquid Germall Plus (ISP) | Diazolidinyl Urea, IPBC | 0.70 |
| Fragrance | Fragrance | 0.15 |
| | YIELD: | 100.00 |
| Adjust pH: 6.6-6.9 | | |

2/2006

CONDITIONING STYLING GEL & TEXTURIZER

Formulation F-24-01

A styling aide that conditions and controls, delivering perfectly formed, frizz-free curls. The formula will provide a medium-hold for lasting definition. The package will be a pump or spray.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|--------------------------------------|-------------------------------------|-----------------|
| Phase A | | |
| Distilled Water | Water | 86.05 |
| Dissolvine Na2S (Akzo Nobel) | Disodium EDTA | 0.05 |
| Glycerin | Glycerin | 3.00 |
| Ultrez 21 (Noveon) | Acrylates/C10-30 Alkyl Acrylate | 0.80 |
| DC 200 Fluid-20 Cst (Dow Corning) | Dimethicone | 1.50 |
| DC 200 Fluid – 100 Cst (Dow Corning) | Dimethicone | 0.50 |
| TEA 99% (Dow Corning) | Triethanolamine | 0.80 |
| Phase B | | |
| SYNTRAN® PC 5208 | Polyacrylate-15 | 2.00 |
| SYNTRAN® PC 5400 | Ammonium Acrylates Copolymer | 4.50 |
| Phase C | | |
| Liquid Germall Plus (ISP) | Diazolidinyl Urea, IPBC | 0.70 |
| Fragrance | Fragrance | 0.10 |
| | YIELD: | 100.00 |
| Adjust pH: 6.5-6.75 | | |

Procedure

Add purified water to main vessel and begin heating to 30-35° C. Begin moderate agitation and add Dissolvine and glycerin. Slowly sift Ultrez 21 into water and stir until completely hydrated. Add dimethicones and stir with high shear until adequately dispersed. Add TEA, as batch thickens switch to side sweep agitation, stir until homogenous. Slowly add Syntran polymers, and stir until homogenous. Individually add Phase C ingredients. Stir and cool batch to room temperature.

2/2006

MOISTURIZING STYLING GEL
Formulation F-24-09

A styling aide with medium control that smoothes hair and locks in a sleek, straight look. The formula is a light cream or gel. The package will be a pump or spray.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|------------------------------|-------------------------------------|-----------------|
| Phase A | | |
| Distilled Water | Water | 84.45 |
| Dissolvine Na2S (Akzo Nobel) | Disodium EDTA | 0.05 |
| Glycerin | Glycerin | 5.00 |
| Butylene Glycol | Butylene Glycol | 1.00 |
| UltreZ 21 (Noveon) | Acrylates/C10-30 Alkyl Acrylate | |
| | Crosspolymer | 0.80 |
| TEA 99% | Triethanolamine | 0.80 |
| Phase B | | |
| SYNTRAN® PC 5208 | Polyacrylate-15 | 2.00 |
| SYNTRAN® PC 5400 | Ammonium Acrylates Copolymer | 5.00 |
| Phase C | | |
| Liquid Germall Plus (ISP) | Diazolidinyl Urea, IPBC | 0.70 |
| Fragrance | Fragrance | 0.10 |
| | YIELD: | 100.00 |
| Adjust pH: 6.5 – 6.75 | | |

3/2006

WASH 'N STYLE SHAMPOO

Formulation F-24-11

This great lathering shampoo not only cleanses hair but volumizes and texturizes fine, limp hair. Unique combination of Olefin/Graft and Bimodal polymers surround and support each strand to give root-lift, manageability and excellent shine to lifeless hair. This texturizing shampoo formula adds style-support and texture while leaving hair with a clean, soft, natural feel. No build-up.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|------------------------------------|---|-----------------|
| Phase A | | |
| Purified Water | Water | 48.08 |
| Dissolvine Na2-S (Akzo Nobel) | Disodium EDTA | 0.10 |
| Steol CS-230 (Stepan) | Sodium Laureth Sulfate | 16.00 |
| Stepanol AM (Stepan) | Ammonium Lauryl Sulfate | 14.00 |
| Amphosol HCG (Stepan) | Cocamidopropyl Betaine | 8.00 |
| Tauranol WS-conc (Finetex) | Sodium Cocoyl Taurate | 3.00 |
| Mackamide CMA (McIntyre) | Cocamide MEA | 1.00 |
| Crothix (Croda) | PEG-150 Pentaerythrityl Tetrastearate | 0.25 |
| Glycol Stearate | Glycol Stearate | 0.50 |
| Phase B | | |
| SYNTRAN[®] PC 5208 | Polyacrylate-15 | 6.00 |
| SYNTRAN[®] PC 5100 | Polyacrylate-21 (and) Acrylates/ Dimethylaminoethyl Methacrylate Copolymer | 1.50 |
| Ritapan DL (RITA) | Panthenol | 0.75 |
| Phase C | | |
| Liquid Glydant Plus (Lonza) | DMDM Hydantoin and IPBC | 0.35 |
| Fragrance | Fragrance | 0.40 |
| Citric Acid | Citric Acid | 0.07 |
| | YIELD: | 100.00% |

Procedure

Heat Phase A ingredients to 75°C with moderate agitation. Stir at 75°C until homogeneous. Cool slowly with moderate agitation to avoid aeration to 60°C. At 60°C, individually add each Phase B ingredient to main batch with continuous agitation until a homogenous mixture is obtained. Cool slowly with moderate agitation to avoid aeration to 40-45°C, individually add Phase C ingredients to batch, stir between each addition until homogenous. Adjust pH of batch between 6.1-6.5.

Stability: In progress

BLOW-DRY LOTION

Formulation F-24-13

Adds Body, Bounce and Shine. Great for all relaxed hair styles. Controls frizz as you blow-dry and style. Hair feels silky yet maintains excellent style memory.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|-------------------------------|-------------------------|-----------------|
| Phase A | | |
| Deionized Water | Water | 87.45 |
| Incromectant AMEA-100 (Croda) | Acetamide MEA | 2.00 |
| Glycerin | Glycerin | 1.00 |
| DC 193 Fluid (Dow Corning) | PEG-12 Dimethicone | 1.00 |
| Phase B | | |
| Brij 98 Veg (Uniquema) | Oleth-20 | 1.00 |
| Fragrance | Fragrance | 0.20 |
| Phase C | | |
| Glydant Plus Liquid (Lonza) | DMDM Hydantoin, IPBC | 0.35 |
| Phase D | | |
| SYNTRAN [®] 5320 | Polyquaternium-37 | 3.00 |
| SYNTRAN [®] 5208 | Polyacrylate-15 | 4.00 |
| | YIELD: | 100.00 |

Procedure

Heat water to 40°C. Individually, add Phase A ingredients. Stir between each addition until homogenous. Premix Phase B ingredients at 45°C, add to Phase A, stir until solution clears. Add Phase C ingredients. Stir until clear and homogeneous. Add Phase D ingredients. Stir until homogeneous.

CONDITIONING MOUSSE

Formulation F-24-23

This fast drying, alcohol free formula provides excellent style memory and frizz free results. Can be used for blow-dry and wrap styling.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|------------------------------------|--------------------------|-----------------|
| Phase A | | |
| Distilled Water | Water | 81.15 |
| Dissolvine Na2-S (AKZO NOBEL) | Disodium EDTA | 0.05 |
| Phase B | | |
| Brij 98 Veg (Uniquema) | Oleth-20 | 0.50 |
| Fragrance | Fragrance | 0.10 |
| Phase C | | |
| DC 193 Fluid (Dow Corning) | PEG-12 Dimethicone | 1.50 |
| Ritapan DL (RITA) | Panthenol | 0.30 |
| Amphosol HCG (Stepan) | Cocamidopropyl Betaine | 1.00 |
| Glydant Plus Liquid (Lonza) | DMDM Hydantoin, IPBC | 0.40 |
| Phase D | | |
| SYNTRAN[®] PC 5320 | Polyquaternium-37 | 5.00 |
| SYNTRAN[®] PC 5208 | Polyacrylate-15 | 10.00 |
| | YIELD: | 100.00% |

Procedure

Add water to vessel and heat to 45°C. Add Dissolvine and stir until dissolved. Premix Brij 98 and fragrance and heat to 40-45°C. Add Phase B to Phase A. Stir until clear and homogeneous. Individually add each Phase C ingredient, stir between each addition until batch is clear and homogeneous. Individually add **SYNTRAN[®] PC 5320** and **SYNTRAN[®] PC 5208**. Stir until homogeneous solution results. Appearance: Semi-translucent liquid.

WRAPPING AND SHINE CRÈME

Formulation F-24-24

This luxurious formula rich in Avocado and Jojoba oils adds style support, sheen, moisture and protection to fragile hair. Excellent for wrapping hair. Conditions, detangles and eliminates frizz while providing style memory.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|----------------------------------|--------------------------------|-----------------|
| Phase A | | |
| Distilled Water | Water | 65.45 |
| Glycerin | Glycerin | 2.50 |
| Propylene Glycol | Propylene Glycol | 2.50 |
| Cellosize HEC QP 5200 (Amerchol) | Hydroxyethylcellulose | 0.25 |
| SYNTRAN® PC 5320 | Polyquaternium-37 | 2.00 |
| SYNTRAN® PC 5208 | Polyacrylate-15 | 5.00 |
| Phase B | | |
| Finsolv TN | C12-15 Alkyl Benzoate | 3.00 |
| Petrolatum (Penreco) | Petrolatum | 4.00 |
| Avocado Oil (Desert Whale) | Persea Gratissima Oil | 3.00 |
| Jojoba Oil (Desert Whale) | Simmondsia Chinensis Seed Oil | 3.00 |
| Protachem SMO (Protameen) | Sorbitan Monooleate | 0.20 |
| Escalol 557 (ISP) | Ethylhexyl Methoxycinnamate | 1.00 |
| Procol CS-20D (Protameen) | Cetearyl Alcohol, Ceteareth-20 | 5.00 |
| Stearyl Alcohol | Stearyl Alcohol | 1.00 |
| Cetyl Alcohol) | Cetyl Alcohol | 1.50 |
| Phase C | | |
| Glydant Plus Liquid (Lonza) | DMDM Hydantoin, IPBC | 0.40 |
| Fragrance | Fragrance | 0.20 |
| | YIELD: | 100.00% |

Procedure

Add water, glycerin and propylene glycol to vessel and begin heating to 75°C. Add HEC and stir until completely hydrated and solution is clear. Individually add each **SYNTRAN** polymer. Stir until batch is homogeneous. With batch at 75°C, individually add each Phase B ingredient to batch. Stir between each addition until homogeneous emulsion results. Cool batch to 45°C and individually add each Phase C ingredient. Stir until homogeneous emulsion results. Appearance: white glossy creme.

CURL ACTIVATOR / ENHANCER

Formulation F-24-29

Novel curl activating gel provides superior moisturization while adding springiness and sheen to curly/wavy hair. Syntran[®] polymer provides cohesive curls/waves with flexible hold, frizz reduction, high humidity resistance and curl memory.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|------------------------------------|--|-----------------|
| Phase A | | |
| Deionized Water | Water | 65.00 |
| Dissolvine Na2S (Akzo Nobel) | Disodium EDTA | 0.05 |
| Propylene Glycol | Propylene Glycol | 12.00 |
| Glycerin 99% | Glycerin | 10.00 |
| Carbopol Ultrez 21 (Noveon) | Acrylates/C10-30 Alkyl Acrylate Crosspolymer | 0.70 |
| AMP-95 (ANGUS) | Aminomethyl Propanol | 0.45 |
| Phase B | | |
| Deionized Water | Water | 5.00 |
| Lipocol HCO-40 (LIPO) | PEG-40 Hydrogenated Castor Oil | 0.75 |
| DC 193 Fluid (Dow Corning) | PEG-12 Dimethicone | 0.50 |
| Fragrance | Fragrance | 0.15 |
| Escalol 577 (ISP) | Benzophenone-4 | 0.05 |
| Phase C | | |
| SYNTRAN[®] PC 5208 | Polyacrylate-15 | 5.00 |
| Glydant Plus Liquid (Lonza) | DMDM Hydantoin, IPBC | 0.35 |
| | YIELD: | <u>100.00%</u> |

Procedure

Add Water, Dissolvine, Propylene Glycol and Glycerin to main vessel and stir with high shear. Slowly shift in Ultrez 21 and stir until completely hydrated. Add AMP-95 and stir until gel thickens. In a separate vessel premix Lipocol HCO-40, DC 193 and Fragrance and add to water. Stir until homogeneous. Add Escalol 577 and stir until dissolved. Add Phase B to Phase A and stir until smooth and homogeneous. Slowly add Phase C ingredients. Stir until smooth, uniform gel is formed.

Appearance: Milky, translucent Gel
pH = 6.2-6.5

PROFESSIONAL RELAXER

Formulation F-24-30

A unique polymer enhanced Lye relaxer is gentle to hair. Protects cuticle and leaves hair silky smooth. Polymer penetrates hair shaft during processing giving long lasting humidity resistance and straighter results.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|-------------------------------------|-------------------------|-----------------|
| Phase A | | |
| Deionized Water | Water | 51.90 |
| Propylene Glycol | Propylene Glycol | 2.00 |
| SYNTRAN® PC 5208 | Polyacrylate-15 | 8.00 |
| Phase B | | |
| Polawax NF (Croda) | Emulsifying Wax NF | 7.50 |
| Cetyl Alcohol (Protameen) | Cetyl Alcohol | 1.00 |
| Snow White Petrolatum (Penreco) | Petrolatum | 8.00 |
| Drakeol 7 Lt. Mineral Oil (Penreco) | Mineral Oil | 11.00 |
| Volpo 10 (Croda) | Oleth-10 | 2.00 |
| Brij 72 (Uniqema) | Steareth-2 | 0.50 |
| Phase C | | |
| Deionized Water | Water | 6.00 |
| Sodium Hydroxide | Sodium Hydroxide | 2.10 |
| | YIELD: | <u>100.00%</u> |

Procedure

Add water, Propylene Glycol and **SYNTRAN® PC 5208** to vessel and begin heating to 75-80°C. Stir until batch is homogeneous. With batch at 75-80°C, individually add each Phase B ingredient to batch. Stir between each addition until homogeneous emulsion results. Cool batch to 35°C. In a separate water cooled vessel with high shear stirring prepare Phase C. Caution: Premix will become extremely hot, cool as needed. Slowly add Phase C to batch. Homomix until batch is homogeneous and smooth.

Appearance: Low Viscosity, glossy, white creme.
pH = 12.6 – 12.9

SUPER CONDITIONING PROFESSIONAL RELAXER

Formulation F-24-32

A unique polymer and conditioner enhanced Lye relaxer is gentle to hair. Protects hair and scalp during application and processing. Leaves hair silky smooth. Gives long lasting humidity resistance and straightener results.

| | <u>INCI Designation</u> | <u>Weight %</u> |
|-------------------------------------|--|-----------------|
| Phase A | | |
| Deionized Water | Water | 39.40 |
| Propylene Glycol | Propylene Glycol | 3.00 |
| SYNTRAN® PC 5208 | Polyacrylate-15 | 8.00 |
| Phase B | | |
| Crodafos CES (Croda) | Cetearyl Alcohol, Ceteth-10 Phosphate, Dicetyl Phosphate | 7.00 |
| Incroquat Behenyl TMS (Croda) | Behentrimonium Methosulfate, Cetearyl Alcohol | 1.00 |
| Cetyl Alcohol | Cetyl Alcohol | 1.00 |
| Snow White Petrolatum (Penreco) | Petrolatum | 15.00 |
| Drakeol 7 Lt. Mineral Oil (Penreco) | Mineral Oil | 15.00 |
| Volpo 10 (Croda) | Oleth-10 | 2.00 |
| Brij 72 (Uniqema) | Steareth-2 | 0.50 |
| Phase C | | |
| Deionized Water | Water | 6.00 |
| Sodium Hydroxide | Sodium Hydroxide | 2.10 |
| YIELD: | | <u>100.00%</u> |

Procedure

Add water, Proylene Glycol and **SYNTRAN® PC 5208** to vessel and begin heating to 75-80°C. Stir until batch is homogeneous. With batch at 75-80°C, individually add each Phase B ingredient to batch. Stir between each addition until homogeneous emulsion results. Cool batch to 35°C. In a separate water cooled vessel with high shear stirring prepare Phase C. Caution: Premix will become extremely hot, cool as needed. Slowly add Phase C to batch. Homomix until homogeneous and smooth.

Appearance: glossy, white creme.

pH = 12.6 – 12.9

