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Aromatherapy Body Wash

Miracare® Plaisant & Mackam® HPC-32L

PERSONAL CARE FORMULATION PC-1046

TechServHPC@us.rhodia.com

This sulfate and amide free mild cleanser develops a rich creamy lather with a pleasant silky after-feel. This formulation uses mild, biodegradable surfactants in combination with lavender and chamomile extracts to deliver a therapeutic sensorial experience.

INGREDIENTS (INCI NAME)	FUNCTION	WT, %	PROCESS
Water	Carrier	QS to 100	1. Add water into main vessel and start mixing. Add **Mackam** 35 and Lumulse 602-S and heat to 65°C and hold until Lumulse 602-S is dissolved. 2. Cool to ~35°C and add **Miracare Plaisant** and **Mackam HPC-32L**. Mix until homogeneous. 3. Warm D-Panthenol to ~ 40°C and add to the batch. 4. Charge the lavender and chamomile extracts, fragrance and dye if required. 5. Adjust the pH to 6.5 with 50% citric acid and mix for 15 mins.
Miracare® Plaisant(1) (Water, Sodium Cocoyl Isethionate, Sodium Lauroamphoacetate, Sodium Methyl Cocoyl Taurate)	Primary Surfactant Blend	30.00	
Mackam® 35(1) (Cocamidopropyl Betaine)	Secondary Surfactant	15.0	
Mackam® HPC-32L(1) (Water, Glycol Stearate, Sodium Laureth Sulfate, Myristyl Alcohol, Cocamidopropyl Betaine)	Secondary Surfactant	8.0	
Lumulse 602-S(2) (PEG-150 Distearate)	Viscosity adjuster	0.3	
D-Panthenol	Active	0.5	
Lavender Extract	Active	0.1	
Chamomile Extract	Active	0.1	
Citric Acid (50%)	pH Adjust	QS	
Neolone 950(3) (Methylisothiazolinone)	Preservative	0.1	

Suppliers: (1) Rhodia (2) Lambent (3) Dow

Typical Properties

Appearance	Viscous clear liquid
Brookfield Viscosity at 25°C	8000 – 12,000 cPs cps (LVT, spindle 3, 12 rpm)
pH @ 25°C	6.3 – 6.7
Storage-Stability	Stable for 1 month (25°C ; 45°C ; 4°C) 3 cycles of Freeze/Thaw

North America
Phone: +1-888-776-7337
Tech Service 1-215-781-6364

Europe-France
Phone: +33 (0)1 49 37 62 62

Asia Pacific
Phone: +65 - 6291 1921

Latin America
Phone: +55 11 3741-7637

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LINCOLN FINE INGREDIENTS™	SOP MANUFACTURING PROCEDURE	PREPARED BY: P. HORNISH DATE: 11/10/14	WORK INSTRUCTION NO: N/A
	SUBJECT: MANUFACTURING OF Eco-Body Wash		

Process Instructions for: Eco-Body Wash

Batch Size: 1000 grams

APPARATUS/EQUIPMENT/CHEMICALS/SUPPLIES

Suitable beakers/containers

Mixer (variable mixing speeds)

Balance for weighing raw materials

Mixed Flow Impeller Mixing Blade (http://fawcettco.com/index.php?cPath=36_76)

Hot Plate

Thermometer, °C

DI Water (12.64%)

Geropon® CG 3S (Sodium Cocoyl Glycinate) (36.36%)

Lauric Acid (1%)

Miranol® Ultra L-32 (Disodium Lauroamphoacetate) (25%)

Mackam® LSB-50 (Lauramidopropyl Hydroxysultaine (25%)

Fragrance (optional)

Manufacturing Process:

1) Using a suitable beaker, weigh **126.4g of DI Water** into beaker.

2) Add in **363.6g of Geropon® CG 3S** and mix well. (Use a moderate mixing speed) Start heating the batch to 65°C.

3) Once the temperature of **65°C** is reached add **10.0g of Lauric Acid**. Mix and hold the temperature until the Lauric Acid is completely melted/dissolved. (The batch may become cloudy as the **Lauric acid** is mixed in. Be sure the **Lauric Acid** is completely mixed in before doing the next addition.

4) Start cooling the batch to RT (Room Temp). Add **250.0g of Miranol® Ultra L-32** while continuously mixing.

5) Add **250.0g of Mackam® LSB-50** and continue mixing until a smooth uniform mixture is obtained. (There may be some bubbles in the batch. These will rise and disappear over time.)

6) When the temperature is below 30°C fragrance can be added if desired. Mix until the fragrance is completely incorporated.

LINCOLN FINE INGREDIENTS™	SOP MANUFACTURING PROCEDURE	PREPARED BY: P. HORNISH DATE: 11/10/14	WORK INSTRUCTION NO: N/A
	SUBJECT: MANUFACTURING OF Sulfate Free Body Wash		

Process Instructions for: Sulfate Free Body Wash

Batch Size: 1000 grams

APPARATUS/EQUIPMENT/CHEMICALS/SUPPLIES

Suitable beakers/containers
Mixer (variable mixing speeds)
Balance for weighing raw materials
Mixed Flow Impeller Mixing Blade (http://fawcettco.com/index.php?cPath=36_76) or a standard propeller mixing blade.
Hot Plate
Thermometer, °C
DI Water (70.50%)
Mackam® CBS-50G (Cocamidopropyl Hydroxysultaine) (18.40%)
Geropon® CG 3S (Sodium Cocoyl Glycinate) (9.00%)
Lauric Acid (0.5%)
PEG-150 Distearate (1.0%)
Lincocide™ N (0.10%)
Fragrance (optional) (0.50%)
50% NaOH solution
50% Citric Acid solution

Manufacturing Process:

1) Using a suitable beaker, weigh **705.0g of DI Water** into beaker. Using a moderate mixing speed add the **5.0g of Lauric Acid** and disperse in the water. Start heating the batch to 60°C while mixing until the **Lauric Acid** is dissolved. This step may take some time but be sure the **Lauric Acid** is dissolved before adding the next raw material.

2) Add in **184.0g of Mackam® CBS-50G** and mix well.

3) Add in **90.0g of Geropon® CG 3S** and mix well until homogeneous.

4) Add in **10.0g of PEG-150 Distearate** with the temperature still at 60°C. Mix until dissolved.

5) Cool to 25°C and add fragrance (optional). Mix until clear and homogeneous.

6) Adjust the pH to 6.5-7.0 using either the **Citric Acid** or **NaOH solution**.

7) Add 1.0g of **Lincocide™ N** and mix for 30 minutes or until clear and homogeneous.

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	SUBJECT: MANUFACTURING OF Suspending Body Wash		

Process Instructions for: Suspending Body Wash

Batch Size: 1000 grams

APPARATUS/EQUIPMENT/CHEMICALS/SUPPLIES

Suitable beakers/containers

Mixer (variable mixing speeds)

Balance for weighing raw materials

Mixed Flow Impeller Mixing Blade (http://fawcettco.com/index.php?cPath=36_76)

DI Water (63.92%)

Geropon® CG 3S (Sodium Cocoyl Glycinate) (17.70%)

Miranol® Ultra L-32 (Disodium Lauroamphoacetate) (9.6%)

Rheomer® 33T (Polyacrylates-33) (8.7%)

Lincocide™ K (0.08%)

50% NaOH Solution

Manufacturing Process:

1) Using a suitable beaker, weigh **639.2 of DI Water** into beaker.
2) Add in **87.0g of Rheomer® 33T** and mix well. (Use a slow to moderate mixing speed)
3) Add **96.0g of Miranol® Ultra L-32.** Mix well. Be sure the batch is mixed well before next addition.
4) Add **177.0g of Geropon® CG 3S.** Mix well. Be sure the batch is mixed well before next addition.

   Note: there will be some formation of bubbles in the batch. This is normal.
5) Add **0.8g of Lincocide™ K.** Continue mixing until a smooth uniform mixture is obtained.
6) Add **50% NaOH** solution to a neutral pH. Make the additions in small amounts and mix well before making any subsequent additions.