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Aromatherapy Body Wash

Miracare® Plaisant & Mackam® HPC-32L

**PERSONAL CARE
FORMULATION PC-1046**

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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	<ol style="list-style-type: none"> 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. Cool to ~35°C and add Miracare Plaisant and Mackam HPC-32L. Mix until homogeneous. Warm D-Panthenol to ~40°C and add to the batch. Charge the lavender and chamomile extracts, fragrance and dye if required. 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

WARNING

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	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.

	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%)

Geroon® 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 Geroon® 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.

 LINCOLN FINE INGREDIENTS™	SOP MANUFACTURING PROCEDURE	PREPARED BY: P. HORNISH DATE: 11/10/14	WORK INSTRUCTION NO: N/A
	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.