



Moisturizing Lotion with Laurest[®] 1220 and Squalane

In this formulation, Laurest[®] 1220 acts as an emollient, emulsifier, and antimicrobial agent.

PHASE 1	WT. %
DI Water	78.20%
Disodium EDTA	0.80%
CARBOPOL [®] 940 ¹	0.20%
PHASE 2	WT. %
Laurest[®] 1220	12.50%
Jojoba Oil	2.00%
Glycerin	4.00%
Squalane	0.50%
Hexylene Glycol	0.80%
PEG-25 Hydrogenated Castor Oil	0.50%
PEG-40 Hydrogenated Castor Oil	0.50%

Procedure:

1. Prepare Phase 1 by dissolving EDTA in water and then adding CARBOPOL[®] and disperse.¹
2. In a separate container, prepare Phase 2 by adding ingredients in order of appearance and low-medium shear mixing.
3. Add Phase 2 to Phase 1 with medium shear mixing.

¹ CARBOPOL[®] is a registered trademark of the LUBRIZOL Advanced Materials, Inc. Corporation

About Copperhead Chemical Company[®]: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company[®] • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY[®]**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Cold Process Carbomer Lotion with Laurest® 1220

PHASE 1	WT. %
DI Water	78.00%
Disodium EDTA	0.10%
CARBOPOL® Ultrez 10 ¹	0.50%
PHASE 2	WT. %
Laurest® 1220	13.00%
Capric/Caprylic Triglycerides	5.00%
Jojoba Oil	3.00%
Fragrance	QS
Citric Acid/NaOH	QS

Procedure:

1. Phase 1, dissolve Disodium EDTA into water and add CARBOPOL® Ultrez 10 to disperse.¹
2. In a separate container, combine ingredients in Phase 2 and mix.
3. With high shear mixing, slowly add Phase 2 to Phase 1. Mix.
4. Adjust pH to 6.5-7.0 with Citric Acid/NaOH.

¹ CARBOPOL® is a registered trademark of the LUBRIZOL Advanced Materials, Inc. Corporation

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Revitalizing Heel Cream with Laurest® 1220

PHASE 1		WT. %
DI Water		43.00%
Disodium EDTA		0.05%
CARBOPOL® Ultrez 10 ¹		0.70%
KLUCEL® HXF Pharm ²		0.40%
PHASE 2		WT. %
Water		34.82%
NaOH (50%)		0.30%
UREA		5.00%
PHASE 3		WT. %
Stearic Acid		3.00%
Organic Unrefined Coconut Oil		5.00%
Cetyl Alcohol		1.80%
Glyceryl Stearate SE		1.80%
PHASE 4		WT. %
Laurest® 1220		4.00%
Eucalyptus EO		0.09%
Peppermint EO		0.04%

Procedure:

- Phase 1: Heat water to 70°C and add other ingredients in the order listed. Mix with high shear until all ingredients are dispersed.
- Phase 2: In separate container, heat water to 70°C and add other ingredients in the order listed. Mix with low shear.
- Phase 3: In separate container, combine ingredients in the order listed and heat to 70°C to melt. Mix with low shear.
- Phase 4: In separate container, combine ingredients in the order listed and mix with low shear. Heat to 40°C.
1. With high shear mixing, add Phase 2 to Phase 3.
 2. Add Phases 2/3 to Phase 1, homogenize.
 3. Cool Phases 1/2/3 to 40°C and add Phase 4

¹ CARBOPOL® is a registered trademark of the LUBRIZOL Advanced Materials, Inc. Corporation
² KLUCEL® is a registered trademark of the HERCULES LLC Limited Liability Company

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Whitening Toothpaste with Laurest® 1220

PHASE 1		WT. %
Water		44.00%
Xylitol		10.00%
Sorbitol (70%)		4.00%
Xanthan Gum		1.00%
SIDENT® Silicate 22s ¹		10.00%
PHASE 2		WT. %
Glycerin		20.00%
Sodium Tripolyphosphate		5.00%
Papain		0.50%
CREMOPHOR® RH 40 ²		1.00%
Sodium Lauroyl Sarcosinate (30% solution)		1.00%
Laurest® 1220		3.00%
Mint/Flavor		QS

Procedure:

Phase 1: Combine the ingredients in the order listed at room temperature. Homogenize.

Phase 2: In a separate container, combine the ingredients listed in order of appearance at 40°C and mix with medium to high sheer mixing.

Add Phase 2 to Phase 1. Homogenize.

Laurest acts as a co-surfactant, emulsifier, and antimicrobial agent. Studies show that medium chain fatty acids such as those in Laurest may help prevent the overgrowth of certain bacteria in the oral cavity that cause plaque.

¹ SIDENT® is a registered trademark of the EVONIK DEGAUSS GMBH Limited Liability Company

² CREMOPHOR® is a registered trademark of the BASF SE Corporation

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Mouth Rinse Formulation with Laurest® 1220

PHASE 1	WT. %
Water	54.20%
Xylitol	0.40%
Dimethyl Isosorbide	4.00%
Glycerin	25.00%
Sorbitol	10.00%
PHASE 2	WT. %
CREMOPHOR® RH 40 ¹	2.00%
Laurest® 1220	4.00%
Mint/Flavor	QS

Procedure:

Phase 1: Combine ingredients in the order listed and mix with medium to high shear.

Phase 2: Heat to 40°C to reduce viscosity of CREMOPHOR¹ and then combine ingredients in the order listed and mix with medium to high shear.

Add Phase 2 to Phase 1 slowly with high shear mixing.

¹ CREMOPHOR® is a registered trademark of the BASF SE Corporation

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



**No-Bump Aftershave Lotion
for Men with Laurest® 1220**

PHASE 1		WT. %
Isopropyle Palmitate		1.50%
Capric/Caprylic Triglycerides		1.50%
Glyceryl Stearate SE		2.00%
Glycerin		4.00%
PHASE 2		WT. %
Water		75.04%
Disodium EDTA		0.06%
CARBOPOL® 940 ¹		0.70%
KLUCEL® HXF Pharm ²		0.30%
SDA 40B		7.00%
Salicylic Acid		2.00%
Steareth 20		0.20%
PHASE 3		WT. %
Laurest® 1220		4.00%
Cucumber Extract		0.50%
Fragrance		0.20%
Polysorbate 80		1.00%
PHASE 4		WT. %
Sodium Hydroxide, 50%		QS

Procedure:

Phase 1: Combine ingredients in the order listed and heat to melt to ~ 60°C with medium shear mixing.

Phase 2: In a separate container, add ingredients in Phase 2 in order of appearance, according to standard practice. Heat to around 40°C. Homogenize.

Phase 3: Combine and mix the ingredients in order of appearance with medium shear mixing.

Add Phase 2 to Phase 1, homogenize.

Add Phase 3 to newly combined Phases 1 & 2. Homogenize.

Phase 4: Adjust pH to 6.5-6.8 with sodium hydroxide solution.

¹ CARBOPOL® is a registered trademark of the LUBRIZOL Advanced Materials, Inc. Corporation

² KLUCEL® is a registered trademark of the HERCULES LLC Limited Liability Company

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



**Anti-Acne Topical Lotion
with Laurest® 1220**

PHASE 1	WT. %
DI Water	82.50%
Glycerin	2.00%
Salicylic Acid	3.00%
Laurest® 1220	3.00%
PHASE 2	WT. %
Sodium Hydroxide	QS
PHASE 3	WT. %
Cetearyl Alcohol	2.00%
Glyceryl Stearate	2.00%
Ceteareth-20	1.00%
Ceteareth-12	1.00%
PHASE 4	WT. %
COS MEDIA® Triple C (Polyquaternium-37 (and) Dicapryl Carbonate (and) Lauryl Glucoside) ¹	3.50%

Procedure:

- Phase 1: Combine all ingredients in Phase 1 and mix.
- Phase 2: Adjust pH with sodium hydroxide until desired pH is met (3.5-4.5)
- Add Phase 3, mix.
- Add Phase 4 and mix until desired viscosity is reached.
- Add fragrance if desired.

¹ COS MEDIA® is a registered trademark of the COGNIS IP Management GMBH Corporation

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com



Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



**Deodorant Stick
with Laurest® 1220**

PHASE 1	WT. %
Cyclomethicone	70.00%
Zinc Ricinoleate	4.00%
Cetearyl Alcohol	10.00%
Safflower Oil	1.50%
Talc	2.50%
Starch	0.40%
Beeswax	4.00%
Microcrystalline Wax	3.50%
PHASE 2	WT. %
Laurest® 1220	2.50%
Fragrance (Perfume)	QS

Procedure:

Phase 1: Combine all ingredients in Phase 1 in a heat resistant vessel and heat to 75°C with mixing until uniform.

Phase 2: Combine the ingredients in Phase 2 and add to Phase 1. Mix with blender or homogenizer.

Pour hot into deodorant containers.

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



**Canine (Pet) Ear Wash with
Cucumber Extract and
Laurest® 1220**

PHASE 1		WT. %
DI Water		QS
Disodium EDTA		0.05%
PHASE 2		WT. %
Plantapon SF ¹		18.00%
Cocamidapropyle Betaine		2.50%
Lamesoft PO ²		1.50%
PEG 150 Distearate		1.00%
PHASE 3		WT. %
Laurest® 1220		QS
Cucumber Extract		0.50%
Polysorbate 80		1.50%
Fragrance		0.75%

Procedure:

Phase 1: Combine ingredients in Phase 1 and heat to 70°C. Mix until EDTA is completely dissolved.

Phase 2: Add ingredients in Phase 2 to Phase 1. Mix at medium.

Phase 3: In separate container, combine ingredients in Phase 3. Add Phase 3 ingredients to Phase 1 + Phase 2 ingredients.

pH between 6.5 - 7.5

¹ Plantapon® SF (BASF): Sodium Cocoamphoacetate (and) Glycerin (and) Lauryl Glucoside (and) Sodium Cocoyl Glutamate (and) Sodium Lauryl Glucose Carboxylate

² Lamesoft® (BASF): Coco-Glucoside (and) Glyceryl Oleate

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Canine Leave On Ear Treatment
(with Coconut Oil, Vegetable Glycerin,
Sonnenatural[®] Meadowfoam Wax) and
Laurest[®] 1220

Phase 1	WT. %
Coconut Oil	40.00%
Laurest[®] 1220	15.00%
Vegetable Glycerin	15.00%
Sonnenatural [®] Meadowfoam Wax ¹	15.00%

Procedure:

Combine ingredients in the order that they appear.

Mix Well.

¹ ©2017 Sonneborn.

About Copperhead Chemical Company[®]: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company[®] • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY[®]**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Canine Leave On Ear Treatment
(with Water and Methocellulose)
Laurest® 1220

Phase 1	WT. %
Water	QS
Methocellulose	0.5 - 1.0%
Laurest® 1220	10.00 - 15.00%

Procedure:

Disperse Methocellulose in water with high shear.

Add Laurest® 1220 and mix well.

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Canine Leave On Ear Treatment
(with Vegetable Glycerin)
Laurest® 1220

Phase 1	WT. %
Laurest® 1220	10.00 - 15.00%
Vegetable Glycerin	QS

Procedure:

Combine ingredients and mix well.

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Heel Repair Lotion With Laurest® 1220

Phase 1	WT. %
Deionized Water	42.00%
Disodium EDTA	0.05%
Carbopol® 940 ¹	0.75%
Phase 2	WT. %
Water	34.20%
UREA	5.00%
Phase 3	WT. %
Organic Unrefined Coconut Oil	4.50%
Cetyl Alcohol	2.00%
Glyceryl Stearate SE	2.00%
Phase 4	WT. %
Laurest® 1220	5.00%
Benzyl Alcohol	0.50%
Eucalyptus/Peppermint EO	QS

Procedure:

Prepare Phase 1 by adding EDTA to water and then hydrating and dispersing Carbopol®. Heat to 70°C.

In a separate container, prepare Phase 2 by combining UREA in water. Heat to 40°C.

In a separate container, prepare Phase 3 by combining the ingredients and heating to 70°C.

In a separate container, prepare Phase 4 by combining all ingredients and mixing.

With high shear mixing, add Phase 2 to Phase 3.

With high shear mixing, add Phase 1 to Phase 2+3

Cool to 40°C and add Phase 4

pH range >8.00

Viscosity

¹ Carbopol® is a registered trademark of the Lubrizol Corporation

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com

Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



Antifungal Animal Shampoo With Laurest® 1220

Phase 1		WT. %
DI Water		67.50%
Stepanol PB ¹		25.00%
Phase 2		WT. %
Laurest® 1220		6.00%
Benzalkonium Chloride		0.10%
Tea Tree Oil		0.50%
Fragrance		0.00%

Procedure:

Phase 1: Combine ingredients in Phase 1 with low shear mixing

Phase 2: Combine, in order, with mixing, Laurest® 1220 + Benzalkonium Chloride, then add Tea Tree Oil & Fragrance. Mix.

Add the ingredients in Phase 2 into Phase 1 with medium shear mixing.

Add salt to desired viscosity.

¹ Stepanol® is a registered trademark of Stepan Company
Ammonium Lauryl Sulfate, Ammonium Laureth Sulfate, Cocamide DEA, Cocamidopropyl Betaine, Glycol Stearate

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.



**Clear Equine Conditioning Spray
with Antifungal Properties
with Laurest® 1220**

Phase 1		WT. %
DI Water		90.31%
Disodium EDTA		0.10%
Phase 2		WT. %
Laurest® 1220		6.00%
Benzalkonium Chloride		0.10%
FS 102 ¹		3.00%
Tea Tree Oil		0.50%

Procedure:

Phase 1: Add Disodium EDTA to DI water and mix until Disodium EDTA is completely dissolved.

Phase 2: In separate container, combine the ingredients in Phase 2, in order of appearance. Mix to homogeneous.

Slowly add Phase 2 to Phase 1 with medium shear mixing.

¹ FS 102 may be substituted with Cremaphor

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that many infringe upon patent rights.



**Equine Lotion, 10% BPS
with Laurest® 1220**

Phase 1		WT. %
DI Water		82.71%
Disodium EDTA		0.04%
Carbopol ¹ Ultrez 10		0.50%
Phase 2		WT. %
Laurest® 1220		10.00%
Capric/Caprylic Triglycerides		3.00%
Coconut Oil		3.50%
Tea Tree Oil		0.25%

Procedure:

Prepare Phase 1 by adding EDTA to water and mix. Add Carbopol to hydrate and disperse.

Prepare Phase 2 by combining ingredients in the order they appear. Heat to 40°C.

Add Phase 2 to Phase 1 with vigorous mixing or homogenization.

¹ Carbopol is a registered trademark of the Lubrizol® Corporation

About Copperhead Chemical Company®: Copperhead is a leading manufacturer of active pharmaceutical ingredients and specialty chemicals located in Tamaqua, PA USA. Copperhead is dedicated to quality and operates in accordance with Good Manufacturing Practice regulations enforced by the U.S. FDA. Contact information is as follows:

Sales and Technical Support:

Copperhead Chemical Company® • 120 River Road • Tamaqua, PA 18252 • Website: www.copperheadchemical.com
Main Tel: (570) 386-6123 • Jim Mosbaugh: (877) 344-4732 • jmosbaugh@copperheadchemical.com

**COPPERHEAD
CHEMICAL
COMPANY®**

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at the recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should perform their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that many infringe upon patent rights.