PH 13 11816-1118

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Until Reregistration

Perigen Industrial Moth Proofer

Roussel UCLAF Corporation 170 Beaver Brook Road Lincoln Park, NJ 07035 1765138870 1765427772 38

The product referred to above is acceptable for registeration under Section 3(c)(7)(A) of the Federal Insecticide and Rodenticide Act since you have agreed to in writing to:

1. Submit the data listed below conducted in accordance with 40 CFR Part 158 test guidelines.

Guideline Reference No. 81-6

<u>Title of Study</u> Dermal Sensitization <u>Date Due</u> 3/17/94

In addition the study must include:

- a. A positive control study conducted with the test sensitization study, or a positive control study conducted within the last six months.
- b. Evluate the sensitizing potential of the subject product using an induction test concentration that elicit a dermal response.
- c. Challenge of induced animals should be conducted with a test concentration that does not elicit positive dermal responses in naive control animals. In other words the highest non-irritating concentration should be used for challenge.
- d. If the Buehler test is employed, the Buehler grading scale should be used and not the Draize scale.

CONCURRENCES							
SYMBOL							
SURNAME	Moats				*****		
DATE	9/16/93.						
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EPA Form 1320-1A (1/90)

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- 2. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.
- 3. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase"EPA Registration No. 4816-718"
- b. Under Precautionary Statements Hazards to Humans and Domestic Animals add the following statement:
- ....... Harmful if inhaled. Causes eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.
- c. Under the Statement of Practical Treatment revise the "IF on Skin" and "If Inhaled" Statements to read If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.
  "If Inhaled" Get medical attention.
- d. On the front panel add the following use statement:
  An Insecticide For Manufacturing Use Only.
  For Manufacturing Use in Producing Wool and Wooly
  Polyamide Blends.
- e. Revise the Environmental Hazards Statement to read as follows:
- ......This product is extremely toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment washwaters.
- 3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

George T. LaRocca Product Manager (13) Insecticide-Rodenticide Branch RegistrationDivision(H7505C)

Enclosures

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CONTAINER CABRING

### PERIGEN INDUSTRIAL MOTHPROOFER

**EPA REG. NO. 4816-**

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EPA EST. NO. 279-NY-1

CODE

CTIVE INGREDIENTS: Permethrin	12.00%
nert Ingredients	88.00%
	100.00%
(3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclo-	
ropanecarboxylate. Cis/trans ratio: max. 55% (+/-) cis and min. (+/-) trans.	

#### KEEP OUT OF REACH OF CHILDREN

CAUTION

See reverse side for additional precautions



NET CONTENTS:

# DIRECTIONS FOR USE: SEE TECHNICAL DATA SHEET - PERIGEN INDUSTRIAL MOTHPROOFER

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or deed by storage of disposal. <u>PESTICIDE STORAGE AND SPILL PROCEDURES</u>: Store upright at room temperature. Avoid exposure to extreme emperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

ACCEPTED
with COMMENTS
in EPA Letter Dated

SEP 1 6 1993

Under the Federal Insecticide. Fungicide, and Rodenticide Act to amended, for the pesticide registered under EPA Reg. No. <u>PESTICIDE DISPOSAL</u>: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at of by an approved waste disposal facility.

<u>CONTAINER DISPOSAL</u>: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove and wash clothing before reuse. Avoid contamination of food and feed.

#### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES:

Flush eyes with plenty of water. Call a physician if irritation persists.

IF SWALLOWED: Promptly drink a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician or Poison Control Center immediately. Do not induce vomiting unless under a physician's care. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

IF ON SKIN:

Remove contaminated clothing and wash affected areas with plenty of soap and water.

IF INIIALED:

}

Remove victim to fresh air. Apply artificial respiration if indicated.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to lakes, streams, ponds, tidal marshes and estuaries. Do not contaminate water by cleaning of equipment or disposal of wastes.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use of store near heat or open flame.

Buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.



ROUSSEL UCLAF

Roussel Uclal Corporation
95 Chestruti Ridge Road
Montvale, New Jersey 07645

# PERIGEN

#### INDUSTRIAL MOTHPROOFER

- PERIGEN IS STABLE IN BOILING ACID AND NEUTRAL (BELOW Pb 7.5) DYEBATHS POR AT LEAST 7 HOURS.
- PERIGEN EXHIBITS VERY GOOD LEVELING PROPERTIES. IT CAN BE APPLIED AT A pH RANGE OF 2.5-6.0.
- THE MOTHPROOFING PROPERTIES OF PERIGEN ARE NOT GENERALLY ADVERSELY AFFECTED BY LEVELING AGENTS IN **DYEBATHS**
- PERIGEN DOES NOT HAVE A RETARDING EFFECT OF THE DYESTUFF AFFINITY TO WOOL OR WOOL/NYLON BLENDS.
- A DURABLE MOTHPROOFING AGENT FOR WOOL AND OTHER PROTEINACEOUS FIBERS
- PERIGEN INDUSTRIAL MOTHPROOFER IS AN INSECTICIDE POR USE BY PROFESSIONAL OPERATORS FOR THE PROTEC-THUN OF WOOL AND WOOL/POLYAMIDE BLENDS AGAINST **WOOL PESTS.**
- \* THE PRODUCT CAN BE APPLIED BY SEVERAL METRICING
- DYERATH
- AFTER TREATMENT
- BATCHWISE OR CONTINUOUS SCOURING OR WASHING (RAW OR FARRIC)
- YARN IN THE SPINNING LUBRICANT
- SPECIALIZED CARPET TREATMENTS
- SOFTENER BOWL OF KROY HERCOSETT
- REDUCTION BLEACHING

#### **ACTIVE INGREDIENTS:**

*Permethrin	12.00%
InertIngredients	
•	100 00%

\*(3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclo-propanecarboxylate. Cis/trans ratio: max. 55% (+/-) cis and min. (+/-) trans.

EPA REG. NO. 4816-

EPA EST. NO.

### KEEP OUT OF REACH OF CHILDREN CAUTION

#### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF SWALLOWED: Promptly drink a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician or Poison Control Center immediately. Do not induce vomiting unless under a physician's care. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

IF ON SKIN: Remove contaminated clothing and wash affected

areas with plenty of soap and water.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated.

> See Reverse Side For Additional Precautions

> > **NET CONTENTS:**



# ROUSSEL UCLAF

Roussel Uclaf Corporation 95 Chestnut Ridge Road Montvale, Mew Jersey 07645

PER33093TK

#### CODE

#### PRECAUTIONARY STATEMENTS

#### Hazards To Humans And Domestic Animals

#### CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove and wash clothing before reuse. Avoid contamination of food and feed.

#### Environmental Hazards

This product is toxic to fish. Do not apply directly to lakes, streams, ponds, tidal marshes and estuaries. Do not contaminate water by cleaning of equipment or disposal of wastes.

### Physical And Chemical Hazards

Do not use of store near heat or open flame.

#### **DIRECTIONS FOR USE:**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or deed by storage of disposal, Pesticide Storage And Spill Procedures: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, ect. Dispose of with chemical waste.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at of by an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

PERIGEN INDUSTRIAL MOTHPROOFER does not stain or color wool. PERIGEN prevents feeding and kills insect pests of wool. Permethrin has a high affinity for wool and does not bind preferentially to polyamide in wool/polyamide blends. For this reason there is no requirement for increased application rates of PERIGEN when treating wool/polyamide blend yarns.

PERIGEN is fast to washing, perspiration, abrasion, shampooing, and dry cleaning. It also provides adequate protection of wool from attack by larvae of:

- moths the brown house moth the webbing clothes moth casebearing clothes moth casebearing clothes moth

Hofmannophila pseudospretella Tineola bisselliella

Tinea translucens Tinca pellionella casebearing clothes moth. Treu dubiel's

- fur beetles

Ambrenus flavines Anthrenus verbasci

carpet beetles

gemis mugaloma علت

Continuous Scouring or Washing

The continuous application of PERIGEN is only economical if large quantities of wool are being processed because of the initial charge required in the treating bath. The methoroofing agent should be applied from the last bowl or washbox with p further

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These adds would be approximately 2 pounds/hour. Dilute this amount to 12 gallons with water and add 1 gallon every 5 minutes unless a continuous feed skystem is available. The degree of dilution can be varied somewhat, but the higher the dilution, the better for kuniformity in adding to the treatment bath.

PERIGEN may also be applied continuous scouring by metered addition. In this process before any yarm is treated the linat bowl should be charged at a rate of 0.3 ml PERIGEN, or 1.2 ml of diluted PERIGEN per liter (4.5 ml diluted per gallon) of liquor volume and thoroughly stirred. The metering device should be filled with diluted PERIGEN and stirred every hour. During the passage of yarm through the bowl the diluted PERIGEN should be metered into the bowl at a rate of 83.5 oz. or 167.3 oz. per 1000 lb. of yarn (equivalent to 0.16 or 0.32% 0wg) depending on the level of protection required.

Yam in the Spinning Lubricant Select a spinning lubricant compatible with PERIGEN.

The quantity of spinning lubricant (usually mixed with water) which is retained by a given quantity of wool during yarn spinning should be calculated.

Select the level of protection required (i.e. 0.16 or 0.32% owg for lubricant/steaming treatments, and 0.38% or 0.82% owg for lubricant treatment followed by foam backing) and then dilute the PERIGEN in the total volume of lubricant so that the volume retained by each batch of yarn after spinning will contain sufficient PERIGEN to give the required % owg.

To optimize the uptake of PERIGEN add a small quantity of acid (e.g. acetic acid) to the spinning solution to abtain a final pH of 5-6.

Mix the product in the tank to abtain and keep a homogenous product. If possible, warm the spraying solution to 122°F (50°C).

Treatment of the yarn should then follow normal lubricant application practice.

Specialist Carpet Applications

PERIGEN may be applied as a spray prior to backing application. This application method may leave a relatively high deposit of active ingredient on the surface of the carpet, the finish of which may therefore be detrimentally affected. Spraying should be carried out as the carpet is being conveyed kto the packing process. Spray nozzles should be set up to give complete coverage across the width of the carpet. Nozzles should be selected to provide a coarse spray. The volume of water picked up by a given weight of carpet should first be determined. PERIGEN should then be diluted with water as appropoiate to achieve desired application rates at their predetermined pick-up rate. Addition of a small quantity .01% w/v (1 ml/liter) of 80% acetic acid to the emulsion may aid fastness. During the subsequent backing procedure the carpet should pass through the following sequence: steam - precoat - dry - foam back - bake.

PERIGEN may be applied by addition to the print paste. This application method may leave a deposit of active ingredient on the surface of the carpet, the finish of which may therefore be detrimentally affected. It should only be used for all-over print patterns (or if a blank paste containing PERIGEN is used in uncolored areas) and if printing is followed by steaming. Penetration of print paste to the base of the tufts should be ensured.

Oxidative/Reductive Bleaching

PERIGEN may be applied during a two part oxidative/reductive bleaching process by addition to the reductive bleaching liquor (eg. stabilized hydrosulphite solution).

Horse Hair and Bristles

Treat the loose material for 1 hour at 120°-130°F (50°-55°C) with 0.3-0.5% (owg) PEP'GEN; pH 4.0-4.5 (acetic acid).

If the loose material is to be dyed, the PERIGEN can be added to the dyebath.



rinsing. To ensure that PERIGEN is being applied uniformly, it is necessary that the diluted product be added continuously to keep the bath concentration fairly constant.

Yam in the Spinning Lubricant

PERIGEN may be applied in spinning lubricant applied to yam which is then subjected to steaming. The steaming process should be of at least 8-10 minutes duration at 105°C (221°F)

PERIGEN may be applied in spinning lubricant applied to yam to be mad up into carpet which will be foam backed. In this case the finished carpet will be subjected to the following foam backing sequence of at least 10 minutes duration: steam - precoat - dry - foam application - bake.

**Specialized Carpet Applications** 

PERIGEN may be applied to carpets as a spray prior to backing applications and as an addition to the print paste. Details are given under Methods of Application.

Kroy-Hercosett

PERIGEN may be applied from the final softener bowl of the backwashing line (95-194°P or 35-40°C) of the Kroy Hercosett treatment to proof blankets, curtains and car seat covers.

#### METHOD OF APPLICATION

#### Dyebath

- 1. Dilute the product with water and add to the dyebath prior to adding the acid.
- 2. Then add the other auxiliaries, acid, and dyes. Run in the usual manner.

Application for stock, yard, or piece dyeing and yarn setting. The calculated quantity of PERIGEN to give the % owg for the level of protection required is added to the dyebath or setting bath after diluting with water at a rate of 1 part PERIGEN to 3 parts water.

The calculated quantity of PERIGEN should preferably be added to the cool bath before immersing the wool or yarn.

PERIGEN may be applied in the byebath during loose stock, yam and piece dyeing.

When fabrics or yams are to undergo further finishing after dyeing (e.g. tape scouring of stock-dyed scrpet yams, piece scouring stock or yam dyed upholstery fabrics) PERIGEN should be applied during the finishing process and not during dyeing. If application during dyeing is anavoidable then application rates should be increased by 25%.

PERIGEN may also be applied during the dying of yam for carpets which will be chemically washed (to provide a high-lustre finish). However, because the chemical washing procedure removes a proportion of the permethrin applied, higher initial application rates must be adopted.

PERIGEN may also be applied as little as 20% of yam intended for carpet manufacture if treatment levels are raised and the treatment yam is intimately mixed with untreated yam. This is particularly suitable for dry-spinning operations in which the dyed portion of a berber blend may be overtreated or even blank dyed for the purposes of applying PERIGEN. Fastness achieved in the dyebath is greater than by lubricant application allowing a technically guperior result at economic cost.

Application for blankets, curtains and car seat covers

PERIGEN is applied in the dyebath after diluting at a rate of 1 part PERIGEN to 3 parts water. The dyebath should be acidified by the addition of 3% on weight of wool (oww) formic acid 90%. The material is allowed to wet thoroughly at 68 F (20 C) and the diluted PERIGEN then added. The temperature of the dyebath is then raised to the boil and held at that temperature for 30 minutes.

Aftertreating Bath

1. Dilute PERIGEN in water and add to the treatment bath containing the goods at 115°F (45°C).

2.Then add X% (o.w.g.) acetic acid, prediluted with water (pH 4-5).

3.Run 30 minutes.

The treated fabric does not require a subsequent rinse. The addition of cold water to the treating bath for cooling down does not affect the mothproofing effect.

Carpets

PERIGEN may be applied in the final acidification step of chemical washing. The calculated quantity of PERIGEN and acetic acid (1% owg) are mixed with sufficient water to give a liquid to carpet ratio of 3 parts liquid to 1 part carpet by weight. The liquid is heated to 122°F (50°C) and sprayed onto the carpet. Brush the face of the pile (and occasionally the back of the carpet) for 5 minutes. Allow to stand for 10 minutes and repeat the brushing procedure for 5 minutes. Remove excess water using squeegees and allow to dry.

PERIGEN may also be used as an after-treatment following chemical washing. The carpet should be immersed in water at 20 C containing the calculated amount of PERIGEN to give the % owg for the level of protection required (i.e. 0.3 or 0.45% PERIGEN owg) using liquid to carpet ratio of 10 parts liquid to 1 part carpet by weight. The liquor should be forced into the carpet by applying frequent pressure to the carpet for a period of approximately 10 minutes. Acetic acid should then be added to the bath at 1% owg and further pressure applied to the carpet for a period of 20 minutes, turning the carpet occasionally when possible. Remove carpet from treating vessel and remove excess water using squeegees. Allow to dry.

When carbonized goods are to be treated, they have to be neutralized with ammonia to pH 6-7 prior to the PERIGEN application. Residual amounts of the carbonizing acid can cause too fast striking of the PERIGEN.

Continuous Scouring or Washing

1. The last bowl is set with -0.5 g/l (0.07 oz/gal.) PERIGEN at a temperature of 115°-120°F (45°-50°C).

2.Subsequent additions are based on the hourly output of wool – 0.5% on the weight of raw wool. The PERIGEN is diluted with water, and this solution is added continuously to the bath during the entire treatment or, if this is not possible, in portions.

3.Example:

A 2,000-pound lot of wool is to be washed and treated with PERIGEN. The hourly output of the continuous washer is 440 pounds. The capacity of the last bowl in the washer is 528 gallons.

Initial Charge: 0.5 g/l = 2.25 poulles PERIGEN/528 gallons

Subsequent Adds:

0.5% of 2,000 pounds = 10 pounds PERIGEN



# APPLICATION RATES

Article	Treatment	Rate i		General Recomm
		% ov		<b>%</b> o
	Yarns in dyebath	0.12	0.26	
	Spray prior to foam backing	0.12 0.25	0.25 0.53	
Carpet treatments	Printing	0.23	0.33	0.3
Carpet treatments	Final acidification	0.13	0.45	دن
	During chemical washing	0.0	0.75	
	After treatment following chemical washing	0.3	0.45	
	Dyebath	0.13	0.29	
Blankets, curtains and car	Reduction bleaching	0.22	0.46	0.3
seat covers	After treatments	0.16	0.77	
	Softener bowl of Kroy Hercosett	0.18	0.39	
Yarn, stock, piece dyeing/ yarn setting	Dyebath	0.12	0.25	0.3
Yarn, stock, piece dyeing/ yarn setting, fabric finishing	Dyebath	0.15	0.31	0.3
Yarn dyeing chemical washing	Dyebath	0.35	0.75	0.5
Yarn	Spinning lubricant followed by	0.16	0.32	0.3
	steaming Foam backing	0.38	0.82	0.5
	Yarn, stock, piece dyeing/yarn setting	0.12	0.25	
	Yarn, stock, piece dyeing/yarn setting, further finishing	0.15	0.31	0.3
	Yarn dyeing - chemical washing	0.35	0.75	

Article	Treatment	Rate*   % owg		General Recommendations % owg	
	Blankets, curtains, and car seat covers	0.13	0.29	0.3	
Scour	Batchwise or continuous scour	0.16	0.32		
	Raw wool scour	0.20	0.40	0.3	
	Aftertreatment following fabric	0.20	0.40	••••	
Spinning Lubricant	Yarn - followed by steaming	0.16	0.32	0.3	
	Yarn - foam backing	0.38	0.82	0.5	
	Spray prior to foam backing	0.25	0.53		
	Printing	0.15	0.31		
Carpet treatments	Final acidification during washing	0.30	0.45	0.3	
	Aftertreatment following chemical washing	0.30	0.45		
Blankets, curtains, car	Reduction bleaching	0.22	0.46		
seat covers	Softener bowl of Kroy Hercosett	0.18	0.39	0.30	
	Aftertreatments	0.16	0.77		
Scour	Batchwise or continuous scour	0.16	0.32		
	Raw wool scour	0.20	0.40	0.3	
	Aftertreatment following finishing	0.20	0.40		

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