

IRB/TSS PRECAUTIONARY LABEL REVIEW

IN 4/10/87 OUT 7/22/87

ACTION CODE: 161

REVIEWER: Donna Williams

PRODUCT MGR. NO. 17

Record Number(s)  
191,828

FILE OR REG NO. 2724-UNR

PRODUCT NAME ZOECON RF-299 RTU CARPET PUMP SPRAY

COMPANY NAME & Zoecon Industries, Division of Zoecon Corp.

ADDRESS 12200 Denton Dr., Dallas, TX 75234

SUBMISSION PURPOSE New product registration

CHEMICAL & FORMULATION Ready to Use Non-Aersol Spray ( 0.007% Methoprene and  
0.25% Permethrin ai; 99.743 % inert ingredients).

PRODUCT USES Applied to carpets, rugs, upholstery and pet bedding to  
control fleas.

COMMENTS AND RECOMMENDATIONS:

1. All studies submitted are acceptable and the product was assigned the following categories:

	<u>TOX CAT</u>	<u>CORE CLASS</u>	<u>MRID#</u>
ACUTE ORAL LD 50	IV	MINIMUM	40106001
ACUTE DERMAL LD50	III	MINIMUM	40106002
EYE IRRITATION	III	MINIMUM	40106003
SKIN IRRITATION	IV	MINIMUM	40106004
DERMAL SENSITIZATION	Non- Sensitizer	MINIMUM	40106005

2. Acute Inhalation study conducted on Zoecon RF-252 Aerosol, EPA Reg No. 2724-322 is applicable to support this data requirement. Placing this product in TOX CAT IV for acute inhalation.
3. Labeling is partially acceptable, "Practical Treatment Statement" (heading) needs to be positioned above individual statements.

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TEST ARTICLE: RTU 206-106-1 [ 0.13% permethrin & 0.18% hydroprene ]

TEST FACILITY & Mideco, Inc.

ADDRESS 520 Wakara Way

Salt Lake City, UT 84108

STUDY SUMMARIES:

1. ACUTE ORAL LD<sub>50</sub> ( LIMIT TEST) EPA MRID NO. 40106001  
STUDY NO. 58551; STUDY INITIATED 5-20-85  
Conforms with Health Assessment Guidelines (81-1) Y/N YES  
Deviations from guidelines NONE  
Level(s) Tested 5M & 5F SD rats: 5100 mg/kg undiluted, oral gavage.  
Significant Toxic Signs Unremarkable.  
Significant Necropsy Findings Unremarkable.  
LD<sub>50</sub>= (Males) > 5100 mg/kg 0% Mortality  
(Females) > 5100 mg/kg 0% Mortality  
(Combined) > 5100 mg/kg 0% Mortality  
Core Classification MINIMUM (If Supplementary list deficiencies)  
Product Toxicity Category for this route of exposure IV

2. ACUTE DERMAL LD<sub>50</sub> ( LIMIT TEST) EPA MRID NO. 40106002  
STUDY NO. 58552; STUDY INITIATED 5/31/85  
Conforms with Health Assessment Guidelines (81-2) Y/N YES  
Deviations from guidelines NONE  
Level(s) Tested 5M & 5F NZ White rabbits: 2.1 g/kg undiluted. Clipped intact skin.  
24-hour occluded exposure.  
Significant Toxic Signs One mortality ( female), diarrhea, well-defined to moderate erythema and slight edema.  
Significant Necropsy Findings Kidney and lung discoloration. Expired animal; ocular and nasal discharge.  
LD<sub>50</sub>= (Males) > 2.1 g/kg 0% Mortality  
(Females) > 2.1 g/kg 10% Mortality  
(Combined) > 2.1 g/kg  
Core Classification MINIMUM (If Supplementary list deficiencies)  
Product Toxicity Category for this route of exposure III

FILE OR REG NO. 2724-UNR

3. PRIMARY EYE IRRITATION EPA MRID NO. 40106003  
STUDY NO. 58554; STUDY INITIATED 5-20-85  
Conforms with Health Assessment Guidelines (81-4) Y/N YES  
Deviations from guidelines NONE

Level(s) Tested 9 NZ White rabbits: 0.1 ml undiluted corneal surface (application).  
3 washed 60 sec post-application. 6 no wash.

Ocular Findings [list number of animals eliciting response and period of duration]  
corneal opacity: 1/6 (unwashed) at 72-hrs, clearing by day-10.  
iritis: none exhibited  
conjunctivae: 6/6 (unwashed) & 3/3(washed) at 24-hrs. 1/6 (unwashed) at day-7,  
clearing by day-10.

Core Classification MINIMUM (If Supplementary list deficiencies)

Product Toxicity Category for this route of exposure III

4. PRIMARY DERMAL IRRITATION EPA MRID NO. 40106004  
STUDY NO. 58553; STUDY INITIATED 5-21-85  
Conforms with Health Assessment Guidelines (81-5) Y/N YES  
Deviations from guidelines NONE

Level(s) Tested 6 NZ White rabbits: 0.5 mls undiluted. Clipped intact skin. 4-hour  
occluded, 4 test sites.

Dermal Findings [list number of animals eliciting response and period of duration]  
erythema 6/6 well-defined at 24 & 72-hrs. 6/6 very slight at 24 & 72-hrs.  
edema none exhibited.

PDIS 1.46

Core Classification MINIMUM (If Supplementary list deficiencies)

Product Toxicity Category for this route of exposure IV

5. DERMAL SENSITIZATION EPA MRID NO. 40106005  
STUDY NO. 58555; STUDY INITIATED 6-04-85  
Test Method Used Buehler Test  
Deviations from accepted test method None.

Concentration Tested 10M Hartely guinea pigs: undiluted. Clipped intact skin. 3,  
6-hour repeat applications (same site).

Postive Control 0.2% DNCB in 80% ethanol/water.

Induction Findings/ Mean Score no dermal irritation elicited.  
Challenge Findings/ Mean Score no dermal irritation elicited.

Product Classification Non-Sensitizer  
Core Classification MINIMUM