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11-6-96

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(S)

**MEMORANDUM**

Subject: EPA Reg. #: 66550-1  
DPBarcode: D228930  
Chemical #: 128725  
Chemical Name: Methyl anthranilate  
Action Code: 305  
Type of Data: Toxicology, acute  
PRS Bean #: 5633

TO: Robert Forrest, PM # 14 Attn: Dan Peacock  
Insecticide/Rodenticide Branch  
Registration Division (7505C)

FROM: David Ritter, Toxicologist OLR 11-6-96  
Precautionary Review Section  
Registration Support Branch  
Registration Division (7505W)

Registrant: Bird Shield Repellant Corp.  
PO Box 785  
Pullman WA 99163-0785

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by Wt.</u>
Methyl anthranilate .....	26.4%
<u>Inert Ingredient(s):</u> .....	73.6%
Total .....	100.0%

Action Requested:

Review eye and skin irritation studies and precautionary labeling.

PRS Response:

The data have been reviewed and the DERs are attached.

The eye irritation study was placed in TOX category II and the skin irritation study was placed in TOX category III. Both studies were classified as acceptable.

The studies are summarized below:

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Acute Toxicity Data Requirements (40 CFR §158.340).  
Pesticide Assessment Guidelines, Subdivision F. Hazard Eval-  
uation: Human and Domestic Animals. (1982; revised 1984).

<u>Data Required</u>	<u>MRID #</u>	<u>Toxicity Category</u>	<u>Classi- fication</u>
Eye Irr. (§81-4)	440703-02	II	A
Dermal Irr. (§81-5)	" -01	III	A

These data support registration of the product.

Precautionary Labeling Review:

PRS has no information from other acute toxicity studies required to write precautionary labeling. Therefore, the attached label reflects only the results of those studies (eye and dermal irritation) reviewed in this submission.

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**DATA EVALUATION RECORD FOR EYE IRRITATION TOXICITY TESTING**  
 (PM): 14 EPA Reg. No.: 66550-1 Reviewer: D. Ritter  
 MRID No.: 440703-02 Lab. No.: 4372  
 Testing Laboratory: Product Safety Labs

725 Cranbury Road  
 East Brunswick NJ 08816

Title of Report: Primary Eye Irritation  
 Date of Report: 6/11/96 Author(s): Gary Wnorowski  
 Species: NZW rabbit  
 Source: Davidson's Mill Farm, S. Brunswick NJ  
 Test Material: Bird Shield Repellant Concentrate  
 Dosage: 0.1 ml  
 Quality Assurance (40 CFR, Section 160.12): Acceptable

Summary: Corneal effects clearing in 8 - 21 days  
 Toxicity Category: II Classification: Acceptable  
 Procedure (Deviation From Series 81-4):

Standard laboratory animal husbandry and GLP were observed. Eyes were examined with 2 % sodium fluorescein 24 hours prior to application. 0.1 ml undiluted Test Article was administered as a single instillation into the everted lower eyelid. Observations for effects were made at 1, 24, 48 and 72 hours, and on days 4, 7, 10 and 14. Irritancy scores were made after Kay, et al (1962).

Results:

**EYE IRRITATION SCOREBOARD**

	No. affected/No. exposed in days								
	1hr	1	2	3	4	7	10	14	
Ocular Effects									
Cornea	1/6	6/6	6/6	5/6	5/6	3/6	2/6	0/6	
Iris	2/6	4/6	4/6	4/6	3/6	1/6	0/6	0/6	
Conjunctivae									
Redness	6/6	6/6	6/6	5/6	5/6	1/6	0/6	0/6	
Chemosis	6/6	6/6	5/6	4/6	0/6	0/6	0/6	0/6	
Discharge	6/6	6/6	4/6	2/6	0/6	0/6	0/6	0/6	

Conclusions:

See summary above.

DATA EVALUATION RECORD DERMAL IRRITATION TOXICITY TESTING §81-5  
 (PM): 14 EPA Reg. No.: 66550-1 Reviewer: D. Ritter  
 MRID No.: 440703-01 Lab. No.: 4373

Testing Laboratory: Product Safety Labs  
 725 Cranbury Road  
 East Brunswick NJ 08816

Title Of Report: Primary Skin Irritation  
 Date of Report: 6/7/96 Author(s): Gary Wnorowski  
 Species: NZW rabbit  
 Source: Davidson's Mill Farm, S. Brunswick NJ  
 Test Material: Bird Shield Repellant Concentrate  
 Dosage: 0.5 ml applied topically  
 Quality Assurance (40 CFR, Section 160.12): Acceptable

Summary: Moderate irritation at 72 hours  
 Toxicity Category: III Classification: Acceptable  
 Procedure (Deviation From Series 81-5):

Standard laboratory animal husbandry and GLP were observed. Fur was clipped from the dorsal trunk one day prior to exposure. Undilute Test Article was administered as a single topical dose of 0.5 ml under a 6 cm<sup>2</sup> gauze patch which was then secured with semi-occlusive dressings and Elizabethan collars. After 4 hours the dressings were removed and the test sites cleansed.

Observations for dermal irritation were made at 1, 24, 48 and 72 hours, and on days 7, 10 and 14. Dermal irritation was scored after Draize (1944).

Results:

DERMAL IRRITATION SCOREBOARD

Rab.#	Eschar/Erythema											Edema											Score
	OBSERVATION TIMES IN DAYS																						
	1hr	1	2	3	4	5	6	7	10	14	21	1hr	1	2	3	4	5	6	7	10	14	21	
520	1	1	1	1				1	1	0		0	0	0	0				0	0	0		1.00
521	1	0	0	0				0	0	0		0	0	0	0				0	0	0		0.00
522	1	1	1	1				1	0	0		0	0	0	0				0	0	0		1.00
523	1	2	2	2				2	1	1		0	0	0	0				0	0	0		1.75
524	1	2	2	2				1	1	1		2	2	2	2				0	0	0		4.25
525	1	1	2	2				2	1	0		0	0	0	0				1	0	0		1.50

Score = sum of numerical grades/no. observation periods at 1, 24, 48 and 72 hours.

PII = Sum of scores/No. animals = 9.5/6 = 1.6  
 Slight < 2.0; Moderate 2 - 5; Severe > 5

Conclusions: See summary above.

ACUTE TOX ONE-LINER

1. PC CODE: 128725; methyl anthranilate
2. CURRENT DATE: 11-6-96
3. TEST MATERIAL: Bird Shield Repellant Concentrate
4. EPA Reg. #: 66550-1

Study/Species/Lab/ Study#/Date	MRID No.	Results	Tox. Cat.	Core Grade
Eye irr./rabbit/PSL* /4372/6-11-96	440703-02	Corneal effects clearing in 8 - 21 days	II	A
Skin irr./rabbit/PSL /4373/6-7-96	" -01	Mod. irr. @ 72 hrs	III	A

\* Product Safety Labs  
725 Cranbury Road  
East Brunswick NJ 08816

Core Grade Key:

A = Acceptable  
U = Unacceptable  
S = Supplementary

ID #: 066550-00001 BIRD SHIELD REPELLENT

SIGNAL WORD: WARNING

PRECAUTIONARY STATEMENTS:

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT (SOPT):

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

Probable mucosal damage may contraindicate the use of gastric lavage.