IRB/TSS PRECAUTIONARY LABEL REVIEW

	IN <u>9-16-87</u> OUT <u>10-28-87</u>	
	ACTION CODE: 760	
REVIEWER: Dona Williams		
PRODUCT MGR. NO. 16	U.S. REGULATORY AFFAIRS	
Record Number(s) 202128	MAY 5 1988	
FILE OR REG NO.		
PETITION OR EUP NO.	241-EUP-RRO	
ODUCT NAME	AC 301, 467 Insecticide/Nematicide	
COMPANY NAME &	American Cyanamid Co., Ag Res Div.	
ADDRESS	P.O. BOX 400	
SUBMISSION PURPOSE	Experimental Use Permit. Review of acute toxicity	
	data.	
CHEMICAL & FORMULATION	ATION Powder [20% Terbufos ai., 80% inert ingredients].	
PRODUCT USES	Application to field corn, sugar beets and grain	
•• · · · · · · · · · · · · · · · · · ·	sorghum.	
COLUMN TO THE PROPERTY OF		

COMMENTS AND RECOMMENDATIONS:

1. Submitted acute studies are acceptable. Based upon review the product was assigned the following categories.

•	CORE CLASS	TOX CAT	MRID#_
Acute Oral LD50	MINIMUM	<u> </u>	403223-04
Acute Dermal LD50	MINIMUM	I	403223-05
Eye Irritation	GUIDELINE	IV	403223-06
Skin Irritation	GUIDELINE	IV	403223-07
Dermal Sensitization	GUIDELINE	Non-Sensitizer	403223-08

2. Precautionary language is acceptable.

ILE OR REG NO. 241-EUP-RRO

(See addendum for sex specific mortalities)

	EPA ACC/MRID NO. 403223-06
t .	RIMARY EYE IRRITATION 4-06-87
•	STUDY NO. 87-30 ; STUDY INTITATED ; STUDY NO
	Contorms with Health Assessment Guidelines (01 47 27 -
	Deviations from guidelines
	Level(s) Tested 6 NZ White rabbits: 100 mg until treated eyes recieved rinse with eyes were rinsed for one second. All treated eyes recieved rinse with
	eyes were rinsed for one second. All treasure period. 72-hrs observation period. tap water following 24-hr exposure period. 72-hrs observation period.
	tap water following 24-in exposure persons
	Fluorescin staining. Ocular Findings [list number of animals elicting response and period of duration]
	Ocular Findings (list number of annuals effecting temperature)
*	corneal opacity: None exhibited
	iristis: None exhibited (6/6) alearing in all by 72-brs.
	conjunctivae: grade (1) redness (6/6) Clearing in all by 12 incompanies. Core Classification GUIDELINE (If Supplementary list deficiencies)
	Core Classification GUIDELINE
	Product Toxicity Category for this route of exposure IV.
	Product Toxicity Category for this force of expense
	PRIMARY DERMAL IRRITATION EPA ACC/MRID NO. 403223-07 STUDY NO. A87-34; STUDY INITIATED 4-07-87 STUDY NO. A87-34 Guidelines (81-5) Y/N Yes
4.	PRIMARY DERMAL IRRITATION STUDY INITIATED 4-07-87
	STUDY NO. A87-34 STUDY
	Conforms with health Assessment
	peviations from guite arbbits, 0.5 cms undiluted. Clipped intact skin. 4-hour
	Level(s) Tested 6M NZ White rabbits: 0.5 gms distribution period. dermal occluded exposure. 72-hr observation period of duration)
	the of animals Allering (establish and portion
	Dermal Findings (11st Number of difference by 24-hours.
_	Permal Findings [list number of alimats effecting by 24-hours. erythema Slight (6/6) at 4-hrs. Clear by 24-hours. None elicted.
	edema None effects.
	PDIS 0.00 Core Classification GUIDELINE (If Supplementary list deficiencies)
	Product Toxicity Category for this route of exposure IV.
	Product Toxicity Category for and
	·
	PERMAT SENSITIZATION 1 EPA ACC/MRID NO. 403223-08
5.	STUDY INITIATED 4-13-87
	STUDY NO. DRC 4904 ; STUDY INITIATED 4-13-07 Test Method Used Modified Buehler None
	Deviations from accepted test method None. Deviations from accepted test method None. Deviations from accepted test method None.
	Deviations from accepted test method Noise. Concentration Tested 10M Harlan Sprague Dawley guinea pigs: 100% undiluted. Nine Concentration Tested 10M Harlan Sprague Dawley guinea pigs: 100% undiluted. Nine Charles induction applications. Challenge (100% concen)
	Concentration Tested 10M Harlan Sprague Dawley guinea pigs. 100% concen) 6-hr occluded induction applications. Challenge (100% concen)
-	6-hr occluded induction appreciations. 2 wks post-final induction at a virgin site. 24 and 48-hr
•	readings
	Postive Control 0.1% DNCB in 50% ethanol. Mean Score No dermal irritation.
	Induction Findings, near occa-
	Challenge Fildings/ Hear Dools
	PLUMCE CLASSIFICATION
	Core Classification GUIDELINE

2 ORAL LD50:

CUNCENTRATION	PERCENT MORTALITY		
(mg/kg)	Males	Females_	
30	60	10	
40	20	100	
60	. 80	100	

ACUTE DERMAL LD50:

CONCENTRATION	PERCENT MORTALITY	
(mg/kg)	Males	<u>Females</u>
80	10	-
160	40	10
	80	60
.40	-	100

1- Dermal Sensitization study conducted by:

Dawson Research Corporation P.O. Box 30666 Orlando, FL 32862



PELICANT'S MAKE AND ADDRESS: American Cyanamid Company Princeton, New Jersey

DATA MATRIX FOOTNOTES

- (1) Data not submitted, because end-use product is not produced by an integrated formulation system. (See CFR 158.120, 62-1, Note 4.)
- (2) Not required for this End-use product (see CFR 158.120 Note 9).
- (3) Data not submitted, because end-use product does not contain an oxidizing or reducing agent. (See CFR 158.120, 63-14, Note 10.)
- (4) Data not submitted, because end-use product does not contain combustible liquids. (See CFR 158.120,63-15, Note 11.)
- (5) Product does not contain explosive ingredients (Sec. CFR 158.120, 63-16, Note 12).
- (6) Data not submitted, because end-use product is not a liquid. (See CFR 158.120, 13-18, Note 13.)
- (7) Data not submitted, because end-use product is not an emulsifiable liquid and will not be diluted in petroleum solvents. (See CFR 158.120, 63-19, Note 14.)
- (8) Data not submitted, because end-use product will not be used around electrical equipment. (See CFR 158.120, 63-21, Note 15.)
- (9) Data not submitted, because end-use product is formulated as a water dispersable granule with a particle size (>700 and <2000) which is greater than 15 micron and not considered to be inhalable.

(See CFR 158.135, Guidelines for 81-3 as contained in the "Pesticide Assessment Guidelines, Subdivision F, Hazard Evaluation: Human and Domestic Animals (Nov. 82).")

acute time

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Reg. #

CHEMISTRY CHECKLIST CONT'D

9.	Data	Matrix	Requirements
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- [] a) Statement of Composition a complete description of the manufacturing/formulation process. Describe equipment used, mixing time, temperature etc.
- Discussion of Formation of [Unintentional] Ingredients a brief description of impurities formed during the manufacturing/formulation process, in packaging, or during storage. If you do not expect any impurities during these stages, please so state.
- Certification of Limits upper and lower limits of each active and individually added inert component. The lower limit for the actives. including solvents declared as active, must not fall below label claim.
- Analytical Methods provide the methods used to analyze for the d) active ingredients.
- Color in common terms. e)
- f) Physical State - e.g. solid, liquid, pressurized liquid, etc.
- Odor in common terms.
- h) Density e.g. lbs/gallon for liquids or lbs/cu. ft. for solids.
- pH provide pH of product or pH of a specified water dilution.
- j) Oxidizing or Reducing - note these characteristics if any.
- k) Flammability - flash point/flame extension.
- 1) Explodability - note these characteristics if any.
 - Storage Stability the formulated product must be analyzed for its active ingredient at time zero and during a year of storage. The storage should be in warehouse conditions and in similar marketable containers you will be using in the trade.

Note: For the Storage Stability study you cannot reference the concentrate you are using to formulate your product.

- Viscosity can be expressed in centipoise or centistokes.
- Miscibility note these characteristics if product is an emulsifiable liquid and mixed with oil.
- [] p) Corrosion Characteristics - this information can be noted during the storage stability study.
- Dielectric Breakdown Voltage for products used near electrical

3 months storage stability date are available. We need 145 f.T dete