

US EPA ARCHIVE DOCUMENT

Tordon 22 K Weed Killer 464-323

Tordon K Weed Killer 464-421

Labels based on Acute Data

464-323

Active ingredient

Picloram as Potassium Salt

24.4

Inert ingredients

75.6

100.00

Summary:

Acute Oral	Category III - Caution
Acute Dermal	Category III - Caution
Acute Inhalation	Category III - Caution
Eye Irritation	Category II - Warning
Primary Dermal	Category III - Caution
Dermal Sensitization	Not a Sensitizer

Signal Word - "Warning"

Label appear acceptable.

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DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (§81-1)

Product Manager: (25) Reviewer: UKW
 MRID No.: 40677401 Report Date: 11/15/87
 Testing Facility: Mammalian & Environmental Tox Report No. M-004713-002A
 Author(s): MM Jefferys, J.E. Battjes & B.L. Yano
 Species: 5M - 5F Fisher 344 Rats
 Age: 9 weeks Observation Days (Post Exposure): (14); other (15)
 Weight: 117g - 189g
 Source: Charles River Breeding Laboratories, Kingston NY
 Test Material: 20.36 ± 0.08 piperazine acid eq
 Quality Assurance (40 CFR §160.12): present

Conclusion:

1. LD50 (mg/kg): Males = > 5000; Females = > 5000; Combined = > 5000
2. The estimated LD50 is > 5000
3. Tox. Category: IV. Classification: acceptable

Procedure (Deviations From §81-1): _____

Results:

DOSAGE (/kg)	Reported Mortality		
	(NUMBER KILLED/NUMBER TESTED)		
	Males	Females	Combined
<u>5000 mg/kg</u>	<u>0/5</u>	<u>0/5</u>	<u>0/10</u>

Symptomology & Gross Necropsy Findings:

all animals gain weight throughout 15 days.
all tissues were within normal limits at necropsy

DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (§81-2)

Product Manager: (25)

Reviewer: VKW

MRID No.: 40677402

Report Date: 11/6/87

Testing Laboratory: Dow

Report No. M-004713-002D

Author(s): M.M. Jeffrey, J.E. Gattjes - K.A. Johnson

Species: New Zealand White Rabbits

Sex: SM, SF Wt.: 2.0 - 3.1 kg

Test Material: pectinase 10 salt (20.36 ± 0.02 active eq)

Quality Assurance (40 CFR §160.12): present

Summary:

1. LD50 (mg/kg): Males = > 2000; Females = > 2000; Combined = > 2000
2. The estimated LD50 is > 2000
3. Tox. Category: III. Classification: acceptable

Procedure (Deviations From §81-2): none

Results:

Reported Mortality

DOSAGE (/kg)	(NUMBER KILLED/NUMBER TESTED)		
	Males	Females	Combined
2000mg/kg	1	1	2/10

Symptomology & Gross Necropsy Findings:

all animals gained weight during study

9 animals had kidneys - normal limits at necropsy

1 M in kidney - Foci - Depressed, consistent with Encephalitis

all other tissues normal

03

DATA REVIEW FOR ACUTE INHALATION TOXICITY TESTING (§81-3)

Product Manager: (25) Reviewer: VEW
 MRID No.: 40677403 Report Date: 2/20/82
 Testing Laboratory: Dow Report No. _____
 Author(s): C.M. Steuten, D.L. Eienbrandt & J.E. Battjes
 Species: Fischer 344 rats
 Sex: 5M 5F Weight: 1438 - 268 g
 Source: Charles River Breeding Lab
 Test Material: picloram as potassium salt (20.4 ± 0.1 acid equivalent)
 Quality Assurance (40 CFR §160.12): present

Summary:

1. LC50 (mg/kg): Males = 70.65 ; Females = 70.65 ; Combined = 70.65
2. The estimated LC50 is 70.65
3. Mean Concentration: _____
4. Tox. Category : III . Classification: acceptable

Procedure (Deviations From §81-2): 0.65 mg/litter - highest attainable concentration

Results:

Exposure Concentration (mg/L)	Reported Mortality (NUMBER KILLED/NUMBER TESTED)		
	Males	Females	Combined
0.65 mg/litter	0/5	0/5	0/10

Symptomology & Gross Necropsy Findings:

DATA REVIEW FOR ACUTE EYE IRRITATION TESTING (§81-4)

Product Manager: (25)
 MRID No.: 40677404
 Testing Laboratory: Dow
 Author(s): M. M. Jeffrey
 Species: New Zealand White Rabbits
 Sex: 3m 3F Weight: 3.1-3.4 kg
 Source: Hazelton, Dutchland, Inc.
 Dosage: 0.1 ml each right eye
 Test Material: picloram potassium salt
 Quality Assurance (40 CFR §160.12): present

Reviewer: VIKW
 Report Date: 11/4/87
 Report No. 2011 30220

Summary:

Tox. Category: II Classification: guidelines

Procedure (Deviation From §81-4):

Results:

	Observations (number "positive"/number tested)							
	Hour	Days						
	1	1	2	3	4	7	14	21
Cornea Opacity	0/6	0/6	0/6	0/6		0/6	0/6	
Iris	3/6	2/6	2/6	0/6		0/6	0/6	
Conjunctivae Redness	4/6	4/6	4/6	3/6		4/6	0/6	
Chemosis	4/6	4/6	4/6	2/6		4/6	0/6	
Discharge	4/6	6/6	5/6	1/6		0/6	0/6	

Comments: No cornea involvement so harmful if swallowed and
 precautionary not necessary.

DATA REVIEW FOR SKIN IRRITATION TESTING (§81-5)

Product Manager: (25)
MRID No.: 40677405
Testing Laboratory: Dow's
Author(s): MM Jeffrey
Species: New Zealand White Rabbits
Age: _____
Sex: 3F 3M
Weight: 2.7-3.0 kg
Dosage: 0.5ml undiluted
Test Material: potassium as K salt (array 20.36 ± 0.08% acidity)
Quality Assurance (40 CFR §160.12): present

Reviewer: VICW
Report Date: 11/18/87
Report No. M-004713-0020

Summary:

The Primary Irritation Index = _____

Toxicity Category: III

Classification: guideline

Procedure (Deviations From §81-5): _____

Results:

with 30 minutes 5/6 had very slight erythema (barely perceptible)
at 24 hours & 48 hours 1/6 had very slight erythema
Resolution at 72 hours
no edema in any animals

Special Comments:

DATA REVIEW FOR SKIN SENSITIZATION TESTING (§81-6)

Product Manager: (25)

Reviewer: UFW

MRID No.: 40677406

Report Date: 10/24/85

Testing Laboratory: Dava

Report No. _____

Author(s): K.S. Rao

Species: Hankley Guinea Pig

Sex: 10M-Taden 22K; 10M-DEF 331 Weight: 255-355g

Source: Charles River Breeding Laboratories

Test Material: 0.1 Thapsin PC 91.85%

Positive Control Material: DEF 331 w/ 10% solution in dipropylene glycol monomethyl ether

Quality Assurance (40 CFR §160.12): present

Method: _____

Summary:

1. This product is / is not a dermal sensitizer
2. Classification: acceptable

Procedure (Deviation From §81-6): _____

Results:

with Taden 22K at challenge no edema any animals

with DEF 331 24 hours - 9/10 slight to marked hyperemia (redness)

48 hours 9/10 slight to moderate

106