

US EPA ARCHIVE DOCUMENT

TECHNICAL SUPPORT SECTION TOXICOLOGY REVIEW - I

Disinfectants Branch

IN March 5 90 OUT March 8 90

Reviewed by Alex Arce Date March 7 90

EPA Reg. No. or File Symbol 4950UR

EPA Petition or EUP No. None

Date Division Received 3-2-90

Type Product(s): I, (D) H, F, N, R, S Sanitizer

Data Accession No(s). 413921-04-05-06-07

Product Mgr. No. Walter Francis # 32

Product Name(s) Econosan Acid Sanitizer

Company Name(s) West Agro of Kansas City Mo.

Submission Purpose Review of data and label for registration

Chemical & Formulation Liquid

Active Ingredient(s):

| | <u>%</u> |
|-----------------|----------|
| Decanoic Acid | 3.0 % |
| Nonanoic Acid | 3.0 |
| Phosphoric Acid | 8.5 |
| Sulfuric Acid | 9.5 |

Primary Skin Irritation

CFR 81.5

89-3893-21

Report Date: Sep 10 89 MRID No.: 413921-06

Method of Testing: CFR 81-06

Species: Rabbits Observation days: 72 hours

No. of animals 6 Material: Undiluted

Dose: 0.5 ml Via: Occluded patch

Areas: In the back Necropsy: No

Procedure The animals were treated with the material in previously clipped areas of the back and observed for signs of damage

Results: Severe Irritation was found in all animals

Conclusion: The product is a Corrosive skin irritant

Core Minimu, data

Toxicity Category: 1

NOTE: THIS TEST IS NOT REQUIRED DUE TO CORROSIVE PROPERTIES OF MATERIAL

Primary Eye Irritation

CFR 81.4

8993-21 (B)

Report Date: Sep 8, 89

MRID No.: 413921-05

Method of Testing CFR 81-4

Species: Rabbits Observation days: Sacrificed

Dose: 0.1 ml Materials: Undiluted

No. of animals: 6 Via: Eye instillation

Areas: One eye Necropsy: No

Procedure

The rabbits were subjected to instillation of the material in one eye, other eye served as control. Observations for signs of damage were performed

NOTE : This test was terminated due to the corrosive properties of the material.

Results: Severe Corneal opacity and Iritis developed 6/6

Conjunctival irritation was severe ; corrosive

Eyes Cleared: Did not cleared , animals were sacrificed

Core Minimum, data

Toxicity Category: 1

CORROSIVE PRODUCT , TEST IS NOT REQUIRED

Acute Dermal LD₅₀ CFR 81.2

Report Date: Sep 8 89 MRID No. 413921-05
Method of Testing: CFR 81-2
Species: Rats Sex: M and F Age: Adults
Levels Tested: 2.0 g/kg No./animals/dose 5 M and 5 F
_____ via: Occluded patch
Weight: Acceptable Observation days: 1
Material: Undiluted Necropsy: All

Procedure

The animals were treated with the material in previously clipped areas of the skin and observed for signs of toxicity

NOTE This test was aborted due to the corrosive properties of the material.

Result

Signs of Toxicity: Skin corrosivity
Mortality: Animals were sacrificed upon removal from restrainers
Body weights: N/A
Necropsy: Necrosis of treated areas

Conclusions: The Acute Dermal LD₅₀ is Was not established

Core Supplementary data

Toxicity Category: Not established

NOTE : This test need not to be performed because of the corrosive potential of the product

DATA REVIEW

Test Laboratory: Hill Top Biolabs

89-3893-21 (A)

Acute Oral LD₅₀ CFR 81.1

Report date: Oct 11 89 MRID No. 413921-04

Method of Testing: CFR 81-1

Species: Rats Sex: M and F Age: Adults

Levels Tested: 5.0 g/kg and 0.5 g/kg

No. Animals/dose: 5 and 5

Weights: Acceptable Via: Intubation

Material: Undiluted Observation days: 14

Necropsy: All

Procedure

The animals were treated with the material, in empty stomachs, by gavage and observed for signs of toxicity and changes in body

Results

Signs of Toxicity: Depression, stains in body

Mortality: 9/10 at the 5.0 g/kg and 3/10 at the 0.5 g/kg dose levels.

Body weights: One animal's loss 12 g. others showed irregular gains

Necropsy: adherence of organs and congestion, stomach filled with fluids

Conclusion: The Acute Oral LD₅₀ is greater than 0.5 g/kg

Core Minimum data

Toxicity Category: III