

US EPA ARCHIVE DOCUMENT

TECHNICAL SUPPORT SECTION TOXICITY REVIEW - I

Disinfectants Branch

Reviewed by	IN <u>01/28/86</u>	OUT <u>03/28/86</u>
<u>James E. Wilson, Jr.</u>	<u>3/3/86</u>	Date <u>03/28/86</u>
EPA Reg. No. or File Symbol	<u>21164-0</u>	
EPA Petition or EUP No.	<u>NONE</u>	
Date Division Received	<u>01/03/86</u>	
Type Product(s):	<u>I, (D), H, F, N, R, S</u>	
Data Accession No(s)	<u>262944</u>	
Product Mgr. No.	<u>32 (Kempter)</u>	
Product Name(s)	<u>AKTA KLOR 7.5</u>	
Company Name (s)	<u>Rio Linda Chemical Company, Inc.</u>	
Submission Purpose	<u>New Application</u>	
Chemical & Formulation	<u>Liquid</u>	

Active Ingredient(s):

Sodium chlorite

%

7.5

1/2

BACKGROUND

This product will be used as a chlorine dioxide precursor for microbial control in water and wastewater.

RECOMMENDATIONS

The data submitted are adequate to place the product in toxicity category 3 for acute oral toxicity. Acute dermal and eye and skin irritation studies are waived based on the pH of 12.

LABELING

No changes required.

CRP STATUS

Product requires special packaging.

DATA REVIEW

Reports by Northview Pacific Laboratories, submitted to Rio Linda Chemical Company, Inc. Sacramento, CA. 95814 dated May 30, 1985. (Accession No. 260944)

Acute Oral

Method - Five male and five female rats per group were fed a doses of 0.50, 2.50 and of 5.0 g/kg of the test material via gastric gavage. The animals were observed for signs toxicity and mortality for 14 days. Body weights were taken on the day of dosing and weekly thereafter. All animals were subjected to gross necropsy examination at time of death or after sacrifice.

Results - No deaths occurred at 0.50 g/kg; one male and two females died at 2.50 and three males and four females died at 5.0 g/kg. Signs observed were bleeding from the nose and mouth, lethargy, paleness and scuffy coat. Weights losses were observed in survivors. Gross necropsy examination revealed stomachs and intestines distended with gas and discolored lungs and intestines. Survivors had darkened lungs and adrenals.

Conclusion - The acute oral LD₅₀ is approximately 3.75 g/kg.