US EPA ARCHIVE DOCUMENT

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

Product Manager:18
MRID No.:419773-02
Testing Laboratory: Cosmopolitan Safety
Author(s): Geoffrey Robbins
Species: Rat, Sprague Dawley
Weight: M 241 - 268 g, F 201 - 215 g
Source: Laboratory colony
Test Material:BMP 123 (48 LC) Beige liquid
Quality Assurance (40 CFR §160.12): Included

Reviewer: L. Markarian
Report Date:7/1/91
Report No.:C3203

Summary:

1. **The estimated LC_{50} is** >3.59 ml/L

2. **Mean Concentration:**3.59 ml/L

3. **Tox. Category:**III **Classification:**Guideline

Procedure (Deviation From §81-3):

A test and a control group of ten animals each were use to determine the inhalation hazard potential of the test material. The test material was poured through a 20 mu sieve to separate large particles prior to exposure.
Exposure was in a 47.4 liter semicylindrical chamber with an entry port at the top for the aerosol. The exhaust portal was at the opposite side at the bottom. a vacuum pump exhausted the chamber.

The test atmosphere was generated using a DeVibliss model 841 nebulizer and a Gast air pump to supply air(pressure not given). The created aerosol was introduced into the chamber directly from the nebulizer.

Chamber concentrations were measured gravimetrically three times during the exposure. The sampling rate was 1 lpm and duration not more than 10 minutes. Two superimposed filters with activated charcoal inbetween were used for collection of the samples.

Particle size determination was made using a Casella cascade impactor twice during the test.

Chamber air flow, temperature and humidity were monitored and recorded at thirty minute intervals.

Observations were hourly during exposure, after removal from the chamber at 1, 3, and 5 hrs, and daily thereafter. There were twice daily mortality checks during week days.
Necropsy was performed on all animals.

Results:

Chamber Concentration	**TEST**	**CONTROL**
Gravimetric mg/L		
Average	3.59	-------
Range	3.52 - 3.71	
MMAD um		
Average	1.2	
I ± GSD	1.3± 4.3	
II± GSD	1.1± 2.6	
% < 2um		
I	61.3	
II	65.1	
Air Flow lpm	10 constant	10 constant
Temperature range	74 - 86 °F	76 - 64 °F
Humidity %	44 - 84	45 - 84
Mortality		
Males	0/5	0/5
Females	0/5	0/5
Combined	0/10	0/10
Signs of Toxicity		
During exposure	Dorsal fur wet	None
Post exposure	None	None
	Normal weight gains at termination	
Necropsy Findings	None	None

Tox Chem No 006402 Current Date 8/4/92
Laboratory: Cosmopolitan Safety Evaluation, Inc., P.O.Box 71, Lafayette, NJ 07848

STUDY	MATERIAL	MRID NO	RESULTS	TOX CAT	CORE GRADE
Oral Toxicity Limit test(Rats) A1824 3/23/88	BMP Technical 110,000 IU/mg Lot 28 Powder	418266-02	LD_{50} > 5.0 g/kg	IV	Minimum
Dermal Toxicity Limit Test(Rabbits) B1824 3/29/88	" " " "	418266-03			Supplementary Upgradeable
Inhalation Toxicity Limit Test (Rats) C1824 4/24/88	" " " "	418266-04			Supplementary
Eye Irritation in Rabbits D1824 3/23/88	" " " "	418266-05	Clear on day 7		Supplementary
Dermal Irritation in Rabbits E1824 3/16/88	" " " "	418266-06			Supplementary Upgradeable
Sensitization in Guinea Pigs F1824 4/10/88	" " " "	418266-07			Supplementary
Oral Toxicity Limit Test(Rats) A3203 6/27/91	BMP 123 (48 LC) Lot 5123481	419773-01	LD_{50}> 5.0 g/kg	IV	Guideline
Inhalation Toxicity Limit Test C3203 7/1/91	" " " "	419773-02	LC_{50} >3.59 mg/L	III	Guideline

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