US EPA ARCHIVE DOCUMENT

RDCoberly:ccw
8/1/69

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PP# 8E0630 citrus
9F0783

BORAX

003527

Acute Rat Oral (Boric Acid 100%)	:	LD_{50} = 3.16 gm/KG
Acute Rat Oral (Borax 10 Mol)	:	LD_{50} = 5.56 gm/KG
Acute Rat Oral (Borax)	:	Only summaries available Male rat LD_{50}= 6.08 gm/KG Male rat LD_{50}= 4.55 gm/KG Female rat LD_{50}= 4.98 gm/KG
Acute Dog Oral (Borax)	:	LD_{50} = 6.15 gm/KG only summary available.
Acute Cavy Oral (Borax)	:	LD_{50} = 5.33 gm/KG only summary avaiable.
Acute Rat Oral (Boric Acid)	:	LD_{50} - 3.45 gm/KG only summary available.
Acute Rat Oral (Boric Acid)	:	LD_{50} = 4.08 for female rats. Only summary available.
Acute Dog Oral (Boric Acid)	:	LD_{50} = 3.9 gm/KG only summaries presented.
Acute Mouse Oral (Boric Acid)	:	LD_{50} = 4.1 gm/KG only summary presented.

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SUMMARY

The toxicity of this formulation should not create an undue human hazard when usage as per the usage pattern.

BORAX

Acute Rat Oral (100%)

Groups of 5 male animals were tested per dosage level of 1.0, 2.15, 4.64, 6.81, and 10 gm/KG. The test material was given a 50% weight/volume suspension in distilled water. The animals were fasted 3 to 4 hours prior to dosing.

Results:

The LD_{50} equals 3.16 gm/KG. The animals at the dosage levels of 1.0 and 2.15 showed no effects of the treatment. The animals at each of the higher dosage levels exhibited depression and shallow, rapid respiration. Each of the animals at the 4.64 and the surviving animals at the 6.81 gm/KG level showed at the 24 hour observation period depression, diarrhea, and pilo erection. The symptoms persisted until time of death.

Gross autopsies performed upon the animals that died showed markedly erythemic lungs and slightly congested adrenals. The stomachs were distened and contained approximately 2.5 ml of a clear liquid. The livers showed pale areas. Autopsies performed upon the surviving animals at termination of the study revealed no gross pathology.

Acute Rat Oral (Borax 10 Mol)

10 male animals were tested per dosage level and a dosage range of from 4.0 to 7.0 gm/KG. LD_{50} equals 5.56 gm/KG. At 24 hours the majority of the animals at the 4.5, 5.0 and 5.5 gm/KG exhibited depression, diarrhea, ataxia, lacrimation, ptosis, and deep yellow urine stains. The animals at the higher dosage lavels (6.0 to 7.0 gm/KG) exhibited ataxia, diarrhea,

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deep yellow urine stains, and ptosis.

Gross autopsies performed on the animals that died revealed congested lungs, congested adrenals, and distension of the stomachs and small intestines. Gross autopsies performed on the surviving animals revealed pale mottled kidneys, pale livers, and slightly congested adrenals.

...CIDES & ...LATION DIVISION
WASHINGTON, D. C. 20250

...ERDEPARTMENTAL COORDINATION OF ACTIVITIES RELATING TO PESTICIDES

Referral of Application for Registration under the Federal Insecticide, Fungicide, and Rodenticide Act

1, 9/69 Rx. of 7/18/69

2. FILE SYMBOL/REGISTRATION NO.
1624-OL

3. DATE OF APPLICATION
003527
6/23/69

...ME & ADDRESS OF APPLICANT OR REGISTRANT

...ited States Borax & Chemical Corporation
...75 Wilshire Boulevard
...s Angeles, California 90005

5. PRODUCT NAME
20 MULE TEAM BORAX For Control of Blue and Green Mold Decay on Citrus

...MMENTS BY COORDINATING AGENCY

B-97
Boron Compounds

...he following toxicology data on 100% Sodium Tetraborate Decahydrate ($Na_2B_4O_7.10H_2O$) ...transmitted with label and formula for review and retention. See also referral ...1624-OA:

U.S. Borax Research Corporation, Date: August 2, 1961, 10-Mol Borax, Project: #20-0138-32 Acute Oral Administration, 7 pages.

U. S. Borax Research Corporation, Date: January 25, 1961, Boric Acid, Acute Oral Administration, 6 pages.

Place the statement "... ...reach of children" in prominent place on the front panel.

BEST AVAILABLE COPY

(NAME)	8. DATE	9. NAME OF AGENCY

	☐ SAFETY - FISH AND WILDLIFE		☐ SAFETY - HUMAN		☐ OTHER:	
	INITIALS	DATE	INITIALS	DATE	INITIALS	DATE
...R ...SE ...LY	COMMENTS		COMMENTS		COMMENTS	

...RM 9-230 (...T. 1968)

REPLACES PR FORM 9-230, PR FORM 9-231, & PR FORM 9-235, DEC. 1964, WHICH ARE OBSOLETE.

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RIN 5117-93 BORAX
TOX REVIEW 003527

Page 6 is not included in this copy.

Pages _____ through _____ are not included.

The material not included contains the following type of information:

____ Identity of product inert ingredients.

____ Identity of product impurities.

____ Description of the product manufacturing process.

____ Description of quality control procedures.

____ Identity of the source of product ingredients.

____ Sales or other commercial/financial information.

✓ A draft product label.

____ The product confidential statement of formula.

____ Information about a pending registration action.

____ FIFRA registration data.

____ The document is a duplicate of page(s) _____.

____ The document is not responsive to the request.

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
