

US EPA ARCHIVE DOCUMENT

REney:FTSanders:mbs

October 27, 1970

Evaluation of PP. No. 1F1004 for inorganic bromides (calculated as Br) resulting from soil treatment with or 1,2-dibromo-3-chloropropane (Nemagon) Submitted by the Dow Chemical Company and Shell Chemical Company, Filed September 15, 1970

INTRODUCTION

Other petitions 294, 417, 5F0430.

The petitioner is proposing the following:

Crop	Tolerance							
Soybeans	125 ppm							
Lima beans	50 ppm	75 ppm						

In Southeastern States only

New uses not registered.

The names of Dow Chemical Company products are as follows:

- Fumazone EC Nematicide (464-371)
- Fumazone 86 Nematicide (464-313)
- Fumazone 86E Nematicide (464-322)

The names of Shell Chemical Company products are as follows:

- Nemagon 12.1 EC Soil Fumigant
- Nemagon 12.1 C Soil Fumigant
- Nemagon 8.6 EC Soil Fumigant

DIRECTIONS FOR USE

Apply as a preplant or at planting the following dosage in lbs A/A of DBCP.

Summary of Dosages for Products Containing 1,2-Dibromo-3-Chloropropane

Product	Row		Over-all	
	Row	Over-all	Row	Over-all
FUMAZONE EC	6.5 - 13.1	11.8 - 19.7		
FUMAZONE 86	6 - 12.1	12.1 - 20.6		
FUMAZONE 86E	6 - 12.1	12.1 - 20.6		
NEMAGON 8.6EC	8.6 - 17.2	12.9 - 25.8	8.6 - 12.9	17.2 - 21.5
NEMAGON 12.1C	9.1 - 18	12.1 - 24.2	9.1 - 12.1	18.1 - 21.2
NEMAGON 12.1EC	9.1 - 18	12.1 - 24.2	9.1 - 12.1	18.1 - 21.2
17.3% NEMAGON Soil Fumigant Granules	8.6 - 17.3	12.7 - 25.5	8.6 - 12.9	17.3 - 21.6

Do not graze or feed treated plant parts (forage or hay) to meat or dairy animals.

Do not sell treated plant parts (forage or hay) to another party or otherwise introduce into commerce.

ANALYTICAL METHODS

Neutron activation analysis chemical analysis (GC).

Total Bromine.

DISCUSSION OF DATA

Some of the data are listed below:

Total Bromide Ion in soybean forage and straw.

Lbs A/A	Planting	PHI	Soybean	Green Forage	Straw	Meal	Oil	Soap Stock
6	preplant	150	82		220	2/0	NR	0.9
12	preplant	150	67		140	15	NR	1.5
9	21 days	98		254				
12	7 days	10		151				
19.4	preplant	158	42					
25.8	preplant	158	51					

Total Bromide Ion in lima beans.

Part of Bean	Lbs A/A	Planting	PHI	PPM
Succulent	13	0	80	21
Succulent	17.3	preplant	106	10
Green vines	17.3	11 days	120	250
Green vines	14.0	preplant	90	4
Dry Beans	14.0	preplant	150	27
Dry Beans	24.2	preplant	104	3
Straw	14.0	preplant	150	18
Green pods	14.0	preplant	120	3

Total Bromide residues in green soybean forage grown in sandy loam soil fumigated with Fumazone 86.

Gal. A/A In Row	Treated		Net	
	Chem.	Neut. Act.	Chem.	Neut. Act.
0.35	526	496	88	93
0.50	224	225	218	214
0.70	147	153	139	143
0.63	44	57	55	57
0.70	114	122	84	94

CONCLUSIONS

Data is limited at higher rates, but appears sufficient to support the propose tolerances of 125 ppm in or on soybeans and 50 ppm in or on lima beans. Data we note that no tolerance was proposed on lima bean vines and pods which are feed.

Send PR Notice 70-15 with letter of certification. This should have been sent with OF0856.

RECOMMENDATIONS

A favorable opinion is given. See conclusions.

Note for label reviewer cautions against feeding soybean hay and plant remains from lima beans must be on the label. Also do not sell such plant parts.

Information in this petition for 125 ppm in or on lima beans, 50 ppm in or on soybeans and 50 ppm in or on lima beans.

It is the opinion of this Agency that the proposed tolerances adequately reflect the amount of residue which may be present in the feed.

It is noted that the residue was not requested a tolerance in lima beans which may be used as a livestock feed.

It is recommended that the tolerance for lima beans be 50 ppm.

Charles E. ...
... 11/17/70

Evaluation of P.P. No. 1004 for tolerance of inorganic bromides (calculated as Br) resulting from soil treatment with 1,2-dibromo-3-chloropropane. Submitted by The Dow Chemical Company and Shell Chemical Company, 27 Oct 1970

Subject: Pesticide Petition Number OF1004 requesting tolerances for inorganic bromides (calculated as Br) resulting from soil treatment with 1,2-dibromo-3-chloropropane.

Submitted by The Dow Chemical Company and Shell Chemical Co. Filed September 15, 1970

To: Charles L. Smith, Petition Control Office

We have examined the residue data, analytical methods, and other information in this petition for tolerances of 125 parts per million (ppm) in or on soybeans and 50 ppm in or on lima beans.

It is the opinion of this Department that the proposed tolerances reasonably reflect the amounts of residues likely to result.

We note that the petitioner has not requested a tolerance on lima pods which may be used as a livestock feed.

Mr. Smith send PR Notice 70-15. This was requested with OF0856.

Chemical Evaluation Staff

ARS:PR:FTS:Sanders:RENEY:JAS:Shaughnessy:mbs 10/27/70

Summary of Data... Table with columns for Crop, Tolerance, and other data. Includes rows for Soybeans and Lima Beans.