US EPA ARCHIVE DOCUMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT: Petition for a tolerance of the herbicide CGA-24705 and its metabolites at 0.75 ppm in or on corn forage and fodder, at 0.05 ppm in or on fresh corn, sweet corn (kernels plus cob with husk removed) and corn grain, and at 0.02 ppm in or on eggs, milk, and meat.

DATE: MAY 27 1975

MAY 27 1975

FROM: TB

TO: Product Manager

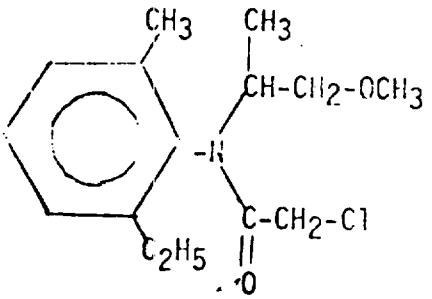
Pesticide Petition No. 5F1606

#1606

Applicant: CIBA-GEIGY Corp.
P.O. Box 11422
Greensboro, North Carolina
27409

Chemical Name: 2-chloro-N-(2-ethyl-6-methylphenyl) -N-(2-methoxy-1-methylethyl) acetamide

Structural Formula:



Recommendation:

TB recommends that a tolerance not be granted for the herbicide CGA-24705 and its metabolites at 0.75 ppm in or on corn forage and fodder, at 0.05 ppm in or on fresh corn, including sweet corn (kernels plus cob with husk removed) and corn grain and at 0.02 ppm in or on eggs, milk, and meat. The petitioner should be informed that in order for a tolerance to be established, long term feeding studies should be submitted; only two 90-day studies were submitted.

Rec'd Chem. Br. JUN 11 1975

EPA Form 1320-6 (Rev. 6-72)

Physical/Chemical Properties:

Form: liquid
B.Pt.: 100°/0.0001 mmHg
V.P.: ca 10^{-5} mm Hg

Solubility:

Water: 530 ppm at 20°C
Miscible in: xylene, toluene, dimethyl formamide, methyl cellusolve, butyl cellusolve, ethylene, dichloride, cyclohexanone
Insoluble in ethylene glycol and propylene glycol

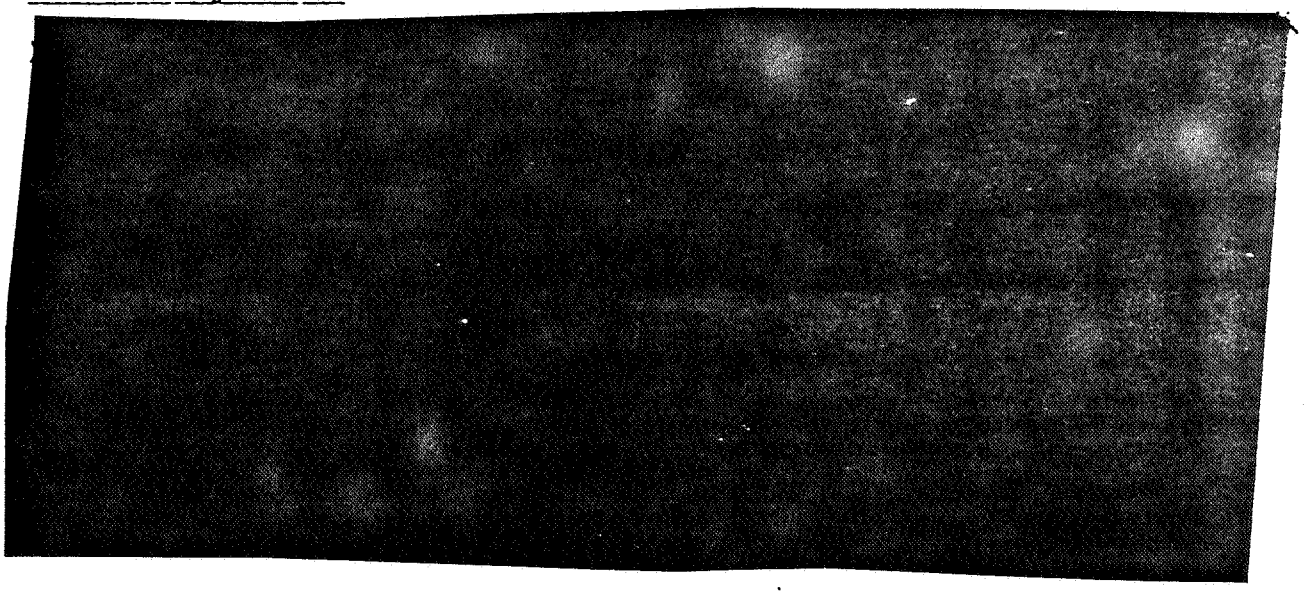
Formulation:

Active Ingredient

2-Chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methyoxyl-1-methylethyl) acetamide 74.1%

(CGA-24705 Technical)

Inactive Ingredient



Inert ingredient information deleted.

Treatment related changes were not observed in any tissues except skin. Effects within the skin were mild to moderate and include acanthosis and hyperkeratosis, and at high test levels edema. At 270 mg/ml or 540 mg/ml, CGA-24705 6E causes mild to moderate irritation.

Also submitted was the histopathological examination of Group III rats (1000 ppm of test material in the diet for 13 weeks) which demonstrates the 90-day 'NEL' for CGA-24705 Technical to be 1000 ppm in the rat. In the review of R.B. Jaeger, 11/12/74, PP No. 5G1553, the 'NEL' for this study was stated to be 2000 ppm, but animals received this level for only 3 weeks (with no effects). The 90-day 'NEL' must be based upon feeding at a prescribed level for the length of the study. The 'NEL' should therefore be 1000 ppm; the newly submitted data reveals no effects at this level.

In the previously submitted report of the 90-day rat feeding study (PP. No, 5G1553), several pages which were in error or left out. These errors were corrected in PP. No. 5F1606.

1. A copy of pg. 149 (previously omitted) was submitted.
2. Pages 154 and 159 omitted histological observations on kidneys (in the English translation). Copies of revised pages were submitted.

In the 90-day subacute oral dog study (PP No. 5G1553), page 161, the histological observation on the uterus was omitted in the English translation. The revised page was submitted. No other data was submitted in PP No. 5F1606.

Laurence D. Chitlik

Laurence D. Chitlik, Toxicologist
Toxicology Branch
Registration Division

cc; Branch Reading File
LChitlik:ir: 5/15/75
Initial O.E. Paynter