US EPA ARCHIVE DOCUMENT

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TO: Mr. Jesse E. Mayes, Acting Chief
Coordination Branch
Registration Division (WH-567)

Registration No.: 100-EXP-X

Product Name: CGA 24705 6EC

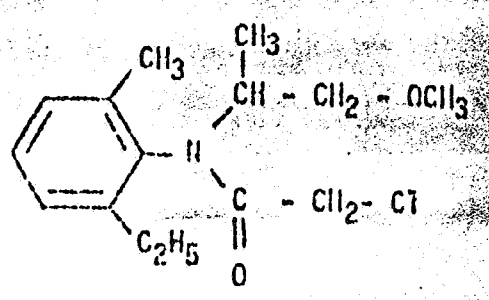
Petition No.: 561553

Proposed Use: Pre-emergence herbicide for selected grass and broadleaf weed control in corn.

Company: Ciba-Geigy Corp.

Proposed Tolerance: 0.75 ppm in or on corn forage and fodder; 0.15 ppm in or on fresh corn, including sweet corn (kernels plus cob with husk removed) and corn grain; 0.02 ppm in or on eggs, milk, and the meat, fat, and meat byproducts of cattle, goats, hogs, horses, poultry and sheep

Structural Formula:



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PA Form 1320 6 (Rev. 6-72)

174

Physicochemical Properties:

Form: Liquid
B. Pt.: [illegible]
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-methoxy-1-methylethyl)acetamide (CGA-24705 Technical) 74.1%

Inactive Ingredient

[redacted]

* Inert cleared under 180.1001 (c), (d) & (e)
** Cleared under 180.1001(c)

Toxicological Evaluation:

Acute Oral Toxicity -

Technical, Rat		LD_{50} = 2780 mg/kg
CGA 24705 GEC, Rat	(M)	LD_{50} = 4286 mg/kg
" " Rat	(F)	LD_{50} = 2828 mg/kg

NEXT INGREDIENT INFORMATION IS NOT INCLUDED

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Technical, Dog	Produced vomiting at 19.0 mg/kg (emesis occurred prior to onset of toxic symptoms).
CGA 24705 6EC, Dog	Produced emesis at 24.5 mg/kg

Acute Dermal Toxicity -

Technical, Rabbit	LD_{50} >10,000 mg/kg
CGA 24705 6EC, Rabbit	LD_{50} >10,000 mg/kg

Acute Inhalation Toxicity -

Technical, Rat	LC_{50} >1.75 mg/l
CGA 24705 6EC, Rat	LC_{50} >247 mg/l

Eye Irritation -

Technical, Rabbit	Non-irritating (0.0/110)
CGA 24705 6EC, Rabbit	Scattered or diffuse areas of opacity persistent for 7 days.

Primary Skin Irritation -

Technical, Rabbit	Non-irritating (0.1/8.0)
CGA 24705 6EC, Rabbit	Non-irritating (1.6/8.0)

Skin Sensitization in Guinea Pig -

Technical -	Not a sensitizer 6 hr erythema - 1.24 6 hr edema - 0.80 14 day erythema - 0.70 14 day edema - 0.50

Subacute Dermal Toxicity -

21-Day, CGA 24705 6E (37.5%), Rabbit*	Study Incomplete
21-Day, CGA 24705 6E (75%), Rabbit*	Study Incomplete

* Lacking histopathology report

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Subacute Oral Toxicity -

90-Day, Rat	LOT 100 mg/kg/day (2000 ppm)
90-Day, Dog	NOT 19 mg/kg/day (500 ppm) - 15 wks 36 mg/kg/day (1000 ppm) - 7 wks

Findings/Recommendations

TB finds that the data in PP No. 5G1553 supports the safety of the proposed tolerance of CGA 24705 6EC in or on corn at 0.05 ppm; in or on eggs, milk, meat and meat byproducts at 0.02 ppm; and in or on corn forage/fodder at 0.75 ppm.

Based on the toxicity data submitted, the following precautionary labeling is required:

(a) The front panel precautionary labeling must meet the type size and prominence requirements.

(b) "DANGER: Keep Out of Reach of Children. Corrosive. Causes eye damage. Do not get in eyes or on clothing. Wear goggles or face shield when handling. Avoid contamination of food."
(The signal word "DANGER" is based on eye irritation studies with CGA 24705-6EC).

(c) "First Aid: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Remove and wash contaminated clothing before reuse."

Robert B. Jaeger, Physiologist
Toxicology Branch
Registration Division (WH-567)

cc:
Div. File RBJaeger/ccw
Br. File 11/12/74

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4