

US EPA ARCHIVE DOCUMENT

#63

Coberly

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT: Experimental Use Permit for the herbicide GA-2-622 4.5L on fresh corn including sweet corn (Kernels plus cob with husks removed) and corn grain
FROM: Toxicology Branch

DATE: FEB 23 1976

TO: Libby Zink
Special Registration Section



Product Name: GA-2-622 4.5L

File Symbol: 100-EUP

Petition: Related to PP No. 5G1553

RECOMMENDATIONS:

TB finds the following label changes necessary for this Experimental Use Permit. They are required since the eye irritation study found corneal opacity persisted throughout the 14 day observation period (unwashed group).

The signal word "DANGER" is required, followed by the addition of the precautionary statements: Keep Out of Reach of Children. Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

COMPOSITION OF GA-2-622 4.5L

	<u>% by Weight</u>
AAtrex 4L, contains 43% Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)*	51.0
CGA-24705 technical, 90% a.i. 2-chloro-N-(2-ethyl-6-methyl phenyl)-N(2-methoxy-1-methylethyl) acetamide**	30.6



Total 100.0%

Inert ingredient information deleted.

- * Tolerances exist for fresh corn including sweet corn (0.25 ppm), corn grain, corn fodder and forage, eggs, milk, and meat
- ** Temporary tolerances exist for fresh corn including sweet corn (0.75 ppm), corn grain, corn fodder and forage, eggs, milk, and meat.

Toxicological Review

Acute Toxicity Studies, CGA-24705 + Atrazine, IBT No. 601-07539, Industrial Bio-Test Laboratories, Inc., Nov. 7, 1975.

Acute Oral, rat

Five male and five female albino rats were used at test levels of 2,025, 3,038, 4,556, and 6,834 mg/kg CGA-24705 + Atrazine (undiluted).

Results:

Necropsy revealed red, discolored lungs; pale, discolored livers; pale, discolored kidneys and gastroenteritis.

Rat, acute oral LD₅₀ = 4,680 mg/kg

Acute Dermal, rabbit

Two male and 2 female albino rabbits received an application of 2,000 mg/kg of the test material (undiluted) and were observed for 14 days.

Results:

No mortalities were noted. At 24 hours, red well defined erythema; mild to moderate edema and focal, superficial, second degree burns were noted.

Rabbit, acute dermal LD₅₀ > 2,000 mg/kg

Eye Irritation, rabbit

Six albino rabbits were used in this study. Three rabbits received 0.1 ml undiluted test material with a 1 minute water wash 30 seconds after exposure, while the other three remained unwashed.

Results:

The washed group exhibited little irritation persisting less than 72 hours and only in the conjunctiva. (Max. score 6.0 at 24 hours). The unwashed group exhibited corneal opacity in 3/3 animals at 72 hours and 0/3 animals at 14 days. (Max. total score 37 in one rabbit at 48 hours; max. corneal score 20 with vascularization at 14 days.)

The test material is a severe eye irritant and the signal word "DANGER" is required.

Primary Skin Irritation, rabbit

Six albino rabbits were used in this study. Each was exposed to 0.5 ml (undiluted) of the test material for 24 hours (3 abraded and 3 intact)

Results:

The primary irritation score was 2.3.

Acute Inhalation, rat

CGA-24705 + Atrazine, Industrial Bio-Test Laboratories, Inc., IBT No. 663-07540, Oct. 21, 1975

Five male and five female Charles River rats were exposed for 4 hours at a concentration of 14,392 mg/m³ test material and then observed for 14 days.

Results

No mortalities or gross pathologic alterations were noted.

Laurence D. Chitlik

Laurence D. Chitlik, Toxicologist
Toxicology Branch
Registration Division (WH-567)

OEP 8/26/76