



**TITLE:** Evaluation of the developmental toxicity of triclopyr triethylamine salt (TTEA) and triclopyr butoxyethyl ester (TBEE) in rats.

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**ABSTRACT:** Time-mated female CDQ rats were given TTEA or TBEE, by gavage, on days 6 through 15 of gestation, at dose levels of 0, 5 (TBEE only), 30, 100 or 300 mg/kg/day. Marked maternal toxicity was observed at 300 mg/kg/day for both TTEA and TBEE. The maternal effects included mortality, clinical signs, body weight loss or decreased body weight gain, increased water and decreased feed consumption, and increased liver (TBEE only) and kidney weights. Maternal effects at the lower dose levels were limited to decreased feed consumption at 100 mg/kg/day of TTEA, increased water consumption at 100 mg/kg/day of TBEE or TTEA and decreased body weight gain at 100 and 30 mg/kg/day of TBEE. No adverse maternal effects were observed at 30 mg/kg/day TTEA or at 5 mg/kg/day TBEE. Developmental effects attributed to treatment were limited to the high dose level and included decreased fetal weight and decreased ossification of the sacrocaudal vertebral arches, cranial centers and sternebrae at 300 mg/kg/day TTEA and an increased incidence of extra (14th) thoracolumbar ribs at 300 mg/kg/day TBEE. In conclusion, the maternal no-observed-effect levels (NOEL) for TTEA and TBEE were 30 and 5 mg/kg/day, respectively; the developmental NOEL for both TTEA and TBEE was 100 mg/kg/day. These results indicate that TTEA and TBEE were not teratogenic and were less toxic to the rat embryo/fetus as compared to the dam.

**MAIN MESH HEADINGS:** Fetus/\*DRUG EFFECTS  
Glycolates/\*TOXICITY

**ADDITIONAL MESH HEADINGS:** Animal  
Body Weight/DRUG EFFECTS  
Dose-Response Relationship, Drug Eating/DRUG EFFECTS  
Female  
Pregnancy  
Rats

**PUBLICATION TYPES:** ABSTRACT

**CAS REGISTRY NUMBERS:** 0 (Glycolates)  
55335-06-3 (Triclopyr)  
57213-69-1 (Triclopyr triethylamine salt)  
64470-88-8 (Triclopyr butoxyethyl ester)

**LANGUAGES:** Eng



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