

PESTICIDE FACT SHEET

MCPP

MCPP, 2-(4 chloro-2-methylphenoxy) propionic acid, is a herbicide for use on turf. MCPP is used in combination with dicamba. It is manufactured by several companies and sold under a variety of trade names. TruGreen purchases products containing MCPP from PBI Gordon Company and Riverdale Chemical Company. The PBI Gordon emergency telephone numbers are: (816) 421-4070; after hours, (913) 342-8783. The Riverdale information number is: (800) 345-3330.

ACUTE TOXICITY

Formulation	Oral LD ₅₀ (mg/kg)	Dermal LD ₅₀ (mg/kg)	Toxicity Rating*
MCPP, Technical	1,666	> 4,000 mg/kg	Moderately toxic
Tank Mix 0.05% MCPP	15,000	> 5,000 mg/kg	Practically non-toxic

*Gosselin R., Smith R., Hodge H., *Clinical Toxicology of Commercial Products, Fifth Edition, PP. VI-3, Williams & Wilkins, 1984.*

A typical application may contain up to 0.09% active ingredient in a water-based solution. A dilute water-based solution containing up to 0.28% active ingredient may be applied by use of a handheld.

Undiluted (technical) MCPP is a skin and eye irritant. As expected, the irritant effects decrease with dilution. The end-use dilution used by ChemLawn was not an irritant when tested in rabbits. A 50% solution in Freund's adjuvant did not sensitize guinea pigs when injected intradermally.

CHRONIC TOXICITY

Rats were fed MCPP at dietary concentrations of 20, 100 or 400 ppm for two years. There were minor increases in blood urea nitrogen and creatinine at the

highest dose and the relative kidney weight was increased in the 100 and 400 ppm groups of male rats. There was no effect on survival nor was there any evidence of a carcinogenic effect.

Studies of sister chromatid exchange in chinese hamsters were weakly positive in animals that received an acutely toxic dose of 3,800 mg/kg.

Dogs were treated with MCPP for 13 weeks With daily oral doses of 4, 16, and 64 mg/kg. Animals receiving 64 mg/kg had decreased weight gains and were anemic. There were no histologic lesions. There were no observable effects in dogs that received 4 mg/kg and only minor effects in weight gain in the group that received 16mg/kg.

MCPP was not teratogenic in rats receiving doses of 20, 50, and 125 mg/kg or rabbits receiving doses of 12, 30, and 75 mg/kg.

ENVIRONMENTAL TOXICITY

MCPP degrades rapidly in soil with a half-life of 5 to 17 days. There was no movement beyond the 0-5 cm zone in soil.

MCPP has low toxicity for aquatic organisms. And when fed to Bobwhite quail, the 5-day LC50 was approximately 5,000 ppm (practically nontoxic).

PRODUCT LABEL PRECAUTIONARY STATEMENTS

The following precautionary statements from the Riverdale Tri-Power® Selective Herbicide label refer to the application of end-use dilutions of this product:

Do not enter area until sprays have dried. Drift or runoff may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.