

Metolachlor

Common name: metolachlor

IUPAC name: 2-chloro-6'-ethyl-*N*-(2-methoxy-1-methylethyl)aceto-*o*-toluidide

Chemical Abstracts name: 2-chloro-*N*-(2-ethyl-6-methylphenyl) -*N*-(2-methoxy-1-methylethyl)=acetamide

Molecular weight: 283.8

Molecular formula: C₁₅H₂₂ClNO₂

Formulation: 720g/IEC

Applications

Biochemistry

Cell division inhibitor; more recent research suggests chloroacetamides may inhibit synthesis of very long chain fatty acids. Maize tolerance of chloroacetamides is attributed to rapid detoxification by glutathione transferases.

Mode of action

Selective herbicide, absorbed predominantly by hypocotyls and shoots. Inhibits germination.

Uses

Control of annual grasses and some broad-leaved weeds in maize, sorghum, cotton, sugar beet, fodder beet, potatoes, peanuts, soya beans, various vegetables, fruit and nut trees, and woody ornamentals. Applied at 1296-1620ml/ha.

720g/l EC characteristics:

Item	Index
Appearance	Even liquid
Content, g/l	720
Water, %	≤0.5
PH value	5.0-7.0

Storage and transportation:

Put in a ventilated and dry place. Keep away from food, seed and feed. Do not touch eyes, skin and be absorbed by mouth and nose..