



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

PRE-PLANT[®] 480EC

Trifluralin 480 gm/L"EC"

1. INTRODUCTION:

Pre-Plant 480EC is an Emulsifiable concentrate formulation containing 480 g / L of the active ingredient Trifluralin. It is used for the Pre-emergence control of many annual grasses and broad-leaved weeds in brassicas, beans, peas, carrots, lettuce, capsicums, tomatoes, artichokes, onions, garlic, vines, strawberries, raspberries, citrus, oilseed rape, peanuts, soya beans, sunflowers, safflowers, ornamentals, cotton, sugar beet, sugar cane, and in forestry.

Pre-Plant 480EC can also be used with linuron or isoproturon for control of annual grasses and broad-leaved weeds in winter cereals. Normally applied pre-planting with soil incorporation, at 0.5-1.0 L/ha, but post-planting application is also possible for some crops

2. ACTIVE INGREDIENT:

Common name

Chemical Group

CAS Registry No.

Molecular Formula

Chemical Name (IUPAC)

Structural Formula

Molecular weight

Vapour Pressure

K_{ow} log P

Acute oral LD₅₀, Male rat

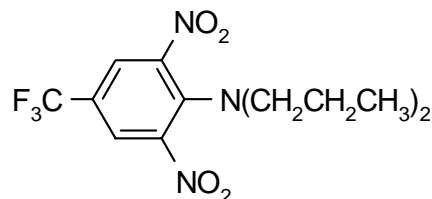
Trifluralin

dinitroaniline

1582-09-8

C₁₃ H₁₆ F₃ N₃ O₄

α,α,α-trifluoro-2,6-dinitro-*N,N*-dipropyl-*p*-toluidine



335.3

6.1 mPa @25°C

4.83@ 20°C

>5000 mg/kg



3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay:	Trifluralin 480 ± 24.0 g/L
Appearance	Light Red Liquid free of visible impurities
Odour	Slightly Aromatic
Density	1.054 ± 0.006 (Kg/L)
pH	Not applicable
Acidity as H ₂ SO ₄	<5.0(g/Kg)
Water Contents	<2.0 (g/Kg)
Flammability	Flammable
Flash Point	>27°C
Explosivity	Not Explosive
Corrosivity	Corrosive to Iron

Emulsion Stability

Initial Emulsification	Complete
Emulsion Stability (2h)	Stable
Re-Emulsification (24 h)	Complete
Emulsion Stability (24.5)	Stable
Heat Stability (2 weeks @ 54°C)	Passed
Cold Stability	Passed

4. MODE OF ACTION:

Pre-Plant 480EC is a Selective soil-herbicide, which acts by entering the seeding in the hypocotyls region. Also inhibits root development.

5. USES:

Pre-Plant 480EC is pre-emergence control of many annual grasses and broad-leaved weeds in brassicas, beans, peas, carrots, parsnips, lettuce, capsicums, tomatoes, artichokes, onions, garlic, vines, strawberries, raspberries, citrus fruit, oilseed rape, peanuts, soya beans, sunflowers, safflowers, ornamentals, cotton, sugar beet, sugar cane, and in forestry. Used with linuron or isoproturon for control of annual grasses and broad-leaved weeds in winter cereals. Normally applied pre-planting with soil incorporation, at 0.5-1.0 kg/ha, but post-planting application is also possible for some crops.



6. COMPATIBILITY:

Pre-Plant 480EC is compatible with other herbicides such as Isoproturon and Bromoxynil. However small mixture should be made and tried before mixing large quantities.

7. APPLICATION:

The following table can be used as a guide for the application of **Pre-Plant 480EC**

Recommendations for Use		
Crop	Weeds	Application Rate
Wheat	Ryegrass, wild oats, <i>Phalaris</i> , <i>Bromus</i> wild mustard, <i>Convolvulus</i> , <i>Setaria</i> , <i>amaranthus</i> & wild radish	800 ml / ha. soil incorporated
Barley		1.25 Lt /ha. Soil incorporated
Vegetables: (pre-planting) carrot, onion, tomato, bean, cauliflower, cabbage, lettuce & pepper	Ryegrass, wild oats, <i>Phalaris</i> , <i>Bromus</i> wild mustard, <i>Convolvulus</i> , <i>Setaria</i> , <i>amaranthus</i> & wild radish.	1.2 – 2.3 Lt /ha soil incorporated
Forages	Annual narrow & broad leafed weeds	3 – 4 Lt /ha soil incorporated
Ornamentals		



8. HANDLING, STORAGE AND TRANSPORTATION:

Pre-Plant 480EC should be transported its original labeled, tightly closed container and stored in a dry well ventilated store at room temperature and away from direct sunlight. It should also be kept away from children, animals, food, feed and drinks and unauthorized personnel. Personnel involved in handling this material should wear protective gloves, clean protective clothing and a facemask.