



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

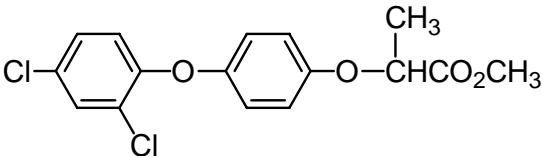
NOGRASS[®] 378EC

Diclofop-methyl 378 g/L "EC"

1. INTRODUCTION:

Nograss 378EC is a systemic selective herbicide, as an emulsifiable concentrate formulation containing 378 g/L of the active ingredient Diclofop-methyl. With contact action, absorbed by the leaves and with some absorption by the roots in moist soil. Undergo rapid transformation to Diclofop, which is translocated within the plant.

2. ACTIVE INGREDIENT:

Common name	Diclofop-methyl
Chemical Group	Aryloxyphenoxypropionate (diphenyl compound)
CAS Registry No.	51338-27-3
Molecular Formula	C ₁₆ H ₁₄ Cl ₂ O ₄
Chemical Name(IUPAC)	(<i>RS</i>)-2-[4-(2,4-dichlorophenoxy) phenoxy]propionic acid
Structural Formula	
Molecular weight	341.2
Vapour Pressure	0.25 mPa @20°C, 7.7 mPa @50°C
K _{ow} log P	4.58
Acute oral LD ₅₀ , Rat	481 - 693 mg/kg



3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay:	"Diclofop-methyl" 378 ± 19 g/L
Appearance:	Dark brown Liquid free of visible impurities.
Odour	Aromatic
Density	1.027 ± 0.006 kg/L
Flash Point	>27°C
Acidity as H ₂ SO ₄	<2.0 g/Kg
Water contents	<5.0 g/Kg

4. MODE OF ACTION:

Noggrass 378EC is a selective systemic herbicide, also with contact action, absorbed primarily by the leaves, with some absorption by the roots in moist soil. Undergo rapid transformation to Diclofop, which is translocated within the plant.

Fatty acid synthesis inhibitor by inhibition of acetyl CoA carboxylase (ACCase). Destroys the cell membrane, prevents the translocation of assimilates to the roots, reduces the chlorophyll content, and inhibits photosynthesis and meristem activity.

5. USES:

Noggrass 378EC used For post-emergence control of wild oats, wild millets, and other annual grass weeds in wheat, barley, rye, red fescue, and broad-leaved crops such as soya beans, sugar beet, fodder beet, flax, legumes, oilseed rape, sunflowers, clover, alfalfa, peanuts, brassicas, carrots, celery, beetroot, parsnips, lettuce, spinach, potatoes, cucumbers, peas, beans, tomatoes, fennel, alliums, herbs, etc..



6. COMPATIBILITY:

- Nograss 378EC is Incompatible with most other herbicides.
- May be tank mix with Bromoxynil, Isoproturon and Liquid fertilizers.

7. APPLICATIONS:

Nograss 378EC is a selective, diphenylether compound used as contact and translocated, post emergence, annual grass herbicide.

The following table can be used as a guide for the application of **Nograss 378EC**

Crops	Weeds	Weed Stage	Application Rate
Wheat	Wild oat Avena spp.	2 – 4 Leave	2 – 3 L / Ha
Barley	Phalaris spp		

8. HANDLING, STORAGE AND TRANSPORTATION:

Nograss 378EC 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.

should not be stored at temperature below -7°C , 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.