

CIR-181829/2021-Pendimethalin (EC) (428)-1388

Pendimethalin 30 % EC

(Herbicide)

It is a emulsifiable pre-emergence selective herbicide containing Pendimethalin 30% w/w and balance other relevant ingredients. Caution Toxic to aquatic organisms hence should not be used near water bodies, aquaculture or pisciculture.

Recommendation

<u>Crop(s)</u>	<u>Common Name of Pest</u>	<u>Dosage/HA</u>		<u>Dilution in Water (Ltr/ha)</u>	<u>Waiting Period between last spray to harvest pre harvest interval(in days)</u>	<u>Re-entry after each Application (In Hours)</u>
		<u>AI (kg)</u>	<u>Formulation (Ltr)</u>			
Cotton	Echinochloa spp, Euphorbia hirta, Amaranthus viridis, Portulaca oleracea, Trianthema spp., Eleusine indica	0.75-1.25	2.5-4.165	500-700	150	
Wheat	Phalaris minor, Chenopodium album, Melilotus alba, Portulaca oleracea, Anaglis arvensis, Fumaria parviflora, Poa annua	Light 1.0, medium 1.25, heavy 1.5	3.3/4.2/5.0	500-700		
Pigeon Pea	Digitaria sanguinalis, Digeria arvensis, Amaranthus spp., Trianthema spp., Euphorbia hirta, Cyperus spp., Eragrostis spp.,	0.75-1.00	2.5-3.33	500	133	
Rice (Transplanted & direct sown upland)	Echinochloa colona, Echinochloa crusgalli, Fimbristylis miliaeeae, Marsila quadrifoliata, Altarnanthera sessilia, Ammania baccifera, Eclipta alba, Ludwigia parviflora,	Light to heavy 1.0-1.5	3.3-5.0	500-700		

	Cyperus difformis,					
Onion	Chenopodium album, Melilotus spp., Digitaria Sanguinalis, Anagalis arvensis, Eleusine indica, Echinochloa spp., portulaca oleracea	0.75-1.00	2.5-3.30	500-700	15 days	
Chillies	Echinochloa spp., Eleusine indica,	1.00-1.25	2.5-4.165	500-700	15 days	
Soybean	Echinochloa spp., Euphorbia spp., Amaranthus viridis, Portulaca oleracea, Trianthema spp., Eleusine indica	0.75-1.00	2.5-3.3	500-700	110	

Direction of Use

Plant Protection Equipments ion use : Knapsack sprayer, foot sprayer, fitted with flat fan/food jet nozzle.

Time of Application

Wheat:- Pre-emergence of weeds, immediately after sowing of wheat.

Cotton:- Pre- plant incorporation upto 7 days before planting or pre-emergence with in 2 days of sowing.

Soybean:- Pre emergence with in 24hours of planting or pre -plant incorporation in top 2-5 cm emergence soil with a suitable farm equipment.

Rice:- (transplanted or direct sowing) Pre-emergence of weeds Application: Ensure uniform level of puddled field.Maintain 5-10 cm of standing water form atleast of week after the application.

Pigeon Pea: Pre-emergence to weeds, 0-2 days after plantation/sowing.

Chillies : Pre-emergence to weeds, 0-4 days after transplanting. Onion: Pre-emergence to weeds, after transplanting/sowing.

Precaution

1. Keep away from foodstuffs, empty foodstuff containers and animals feed.
2. Avoid contact with mouth, eyes and skin.
3. Avoid inhalation the spray mist. Spray in the direction of wind.
4. Wash thoroughly the contaminated clothes and parts of the body after spraying.
5. Do not smoke, drink, eat and chew anything while spraying.

6. Wear full protective clothing while mixing and spraying.
7. It should not be used in the areas where pisciculture/aquaculture is practiced alongwith rice cultivation.

Symptoms Of Poisoning

Headache, giddiness, nausea, vomiting, sweating, excessive lacrimation and salivation may occur.

First Aid

1. If swallowed, do not induce vomiting or give liquid orally.
2. If clothing and skin are contaminated, remove the clothes and wash the contaminated skin with copious amount of soap and water.
3. If eyes are contaminated, flush with plenty of saline/clean water for about 10 to 15 minutes.
4. If inhaled, remove the patient to fresh air.

Phytotoxicity

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Antidote

No specific antidote. Treat symptomatically.

Disposal Of Used Container

1. It shall be the duty of manufactures formulators of herbicide and operator to dispose packages or surplus materials and washings from the machine and container shall be disposed off in a safe manner so as to prevent environmental and water pollution.
2. The used packages shall not be left outside to prevent their re-use.
3. Packages shall be broken and buried away from habitation.

Storage Conditions

1. The packages containing the herbicide shall be stored in separate rooms or premises away from the rooms or premises used for storing other articles particularly articles of food or shall be kept in separate almirahs under lock and key depend upon the quantity and nature of the herbicide.
2. The rooms or premises meant for storing the fungicide shall be built dry, cool, well lit and ventilated and of sufficient dimensions.

Chemical Composition:

Pendimethalin Tech.	(Based on 90% w/w a.i.)	33.90 % w/w
Emulsifer	(A blend of alkyl aryl sulphonic acid calcium salt and poly Alkoxyl Artyl Ether in Aromatic Hydrocarbon)	10.00 % w/w
Solvent:Aromex		56.10 % w/w

Total: 100.00 % w/w
