

CIR-181631/2021-2,4-D Ethyl Ester (EC) (428)-738

2,4-D Ethyl Ester 38% E.C. (Having 2,4-D, Acid 34% w/w)

(Herbicide)

It is a herbicide which contain 38% active ingredient 2, 4-D Ehtyl Ester by mass and balance adjuvants.

Recommendation

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<u>Crop(s)</u>	<u>Common Name of Pest</u>	<u>Dosage/HA</u>		<u>Dilution in Water (Ltr)</u>	<u>Waiting Period between last spray to harvest (days)</u>	<u>Re-entry after each Application (In Hours)</u>
		<u>AI (kg)</u>	<u>Formulation (Ltr)</u>			
Wheat	Chenopodium album, Asphodelus tenuifolius, Furmaria parviflora, Melilotus alba, Spergula arvensis.	0.45- 0.75	1.32 - 2.20	400-500	-	
Acquatic weeds	Eichhornia crassipes	2.5	7.35	700-1000		
Sorghum	Cyperus iria, Striga spp., Trianthema spp., Tridax procumbens, Digera arvensis, Euphorbia hirta, Phyllanthus niruri	1.00	2.94	425	-	
Paddy	Echinochloa colonum, Echinochloa crusgalli	0.85	2.5	400	-	
Maize	Trianthema monogynae, Amaranthus spp., Tribulus terrestris, Boerhavia diffusa, Euphorbia hirta, Portulaca oleracea, Cyperus spp.	0.9	2.65	400-450	50-60	

Direction of Use

Plant Protection Equipment :

Knapsack sprayer, foot sprayer, compression battery sprayer & ASAPEE - HTP power sprayer fitted with flat fan or flood jet nozzle Limitation and caution for use : 1) The interval between the last

application and harvesting crops 3-4 months; 2) Use within four days after transplanting; 3) It should be sprayed to stop the weed germination. Mode of application : Mostly blanket application.

Time of Application

Sorghum: Post emergence when sorghum is 10-30 c.m. tall.

Maize: Pre-emergence 2-3 days after sowing of crop before crop/weed emergence.

Wheat: Post emergence 30-45 days after sowing.

Rice : Pre emergence 2-3 days after transplanting.

Aquatic weeds: When weeds are young and actively growing (directed spray on foliage).

Precaution

1. Keep away from foodstuffs, empty foodstuff containers and animals food.
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.

Symptoms Of Poisoning

Nausea, headache, weakness, diarrhoea, spasticity of muscles of the hands and feet. There may be hyperpyrexia in few cases. Death may occur due to ventricular fibrillation or cardiac arrest.

First Aid

1. If swallowed, induce vomiting by tickling the back of throat. Repeat it until the vomitus is clear. Do not induce vomiting if the patient is unconscious.
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

Quinidine sulphate may be given to control myotonia or suppress abnormal ventricular cardiac rhythm. 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 burried away from habitation.

Storage Conditions

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

Chemical Composition:

2,4-D Ethyl Ester Tech. (based on 85% w/w a.i.)	40.00 % w/w
Emulsifiers (Alkyl aryl sulphonate & Poly oxy ethylene ether)	5.00 % w/w
Solvent (Aromax)	55.00 % w/w
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Total: 100.00 % w/w	
