

CIR-181831/2021-Metribuzin (WP) (428)-678

Metribuzin 70% W.P.

(Herbicide)

It is a selective herbicide for the control weeds in soybean, wheat, Sugarcane, Potato and Tomato crops.

Recommendation

<u>Crop(s)</u>	<u>Common Name of Pest</u>	<u>Dosage/HA</u>		<u>Dilution in Water (liter)</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 (kg)</u>			
Potato	Chenopodium album, trianthema monogyna, Parthenium hysterophorus, Fumaria parviflora, Melilotus spp., Phalaris minor	0.525	0.75	750-1000	30	
Sugarcane	Cyperus rotundus, Cynodon dactylon, Asphodelus fistulosus, Chenopodium album, Convolvulus arvensis, Portulaca oleracea, Anagalis arvensis, Cichorium intybus, Echinochloa colonum, Dactyloctenium aegyptium, Parthenium hysterophorus, Commelina spp.	Pre-emergence : 1.05-2.0; Post emergence: 1.05-1.4	Pre-emergence 1.5-3.0, Postemergence 1.5-2.0	750-1000	60	
Wheat	Phalaris minor, Chenopodium album, Melilotus Spp.	Medium soil: 0.175, Heavy Soil: 0.210	Medium soil: 0.250, Heavy Soil: 0.300	500-750	120	

Tomato	Trientema portulacastrum, Dactyloctenium aegypticum, Gynandropsis pentaphylla, Amaranthus viridis, Portulaca oleracea, Digera arvensis, Euphorbia prostrata, Echinochloa colonum, Ageratum conyzoides, Eleusine indica, Setaria glauca, Commelina benghalensis	0.525	0.75	750-1000	30	
Soybean	Cyperus campestris, Eragrostis spp. , Digitaria spp., Cyperus esculentus, Borreria sp.	0.350-0.525	0.500-0.750	750-1000	30	

Direction of Use

Preparation of spray solution:-

First add a little quantity of water to the wettable powder and prepare a thin paste. Add this solution slowly into the required quantity of water and stir well. Operators are always recommended to give the spray a through stirring when resuming work after breaks.

Plant Protection Equipments : Knapsack or foot operated sprayers fitted with flat fan or flood jet type of nozzle. To ensure better effectiveness follow undermentioned guidelines.

(1)For pre-emergence application : (a) Ensure that the field do not have clods and stubbles (b) After spraying metribuzin 70 WP, do not disturb the soil.

(2)For pre and post emergence application: (a) Avoid drift of spray into adjoining crop field. The recommended time of application and dose should be observed. metribuzin 70 WP should be sprayed with flood jet/flat fan nozzles without overlapping spray swaths. To keep uniform swath width, it is advisable to keep the nozzle height constant from ground level i.e. 48-50 cms.

Precautions by users :-

1. After each operation the mixing and spraying equipment is to be rinsed thoroughly with plenty of water, using a detergent or soap solution before being put to use for spraying other pesticides 2. Any surplus spray solution must not be disposed off in crop lands or in stagnant flowing water, where there is a possibility of polluting sources.

Limitations for use:-

It should not be used in crops where it has not been recommended. It should never be used in combination with any insecticides, urea or growth regulators.

Precaution for use in wheat:

1. Avoid use in Sandy soil
2. Spray on clear day

3. Second irrigation should be light and avoid stagnation of water
4. Avoid overlapping during application
5. Do not tank mix with other herbicides
6. Do not broadcast. It should be sprayed at optimum concentration with flood Jet/Flat Fan nozzles.
7. Concentrate in areas where resistance of Phalaris minor is confirmed.

Time of Application

Soybean: Pre emergence- 1-2 days after sowing.

Wheat: post emergence- 35 days after sowing.

Sugarcane: Pre emergence- 3-5 days after planting or Post emergence- 25-30 days after planting.

Potato: Pre emergence- 3-4 days after planting or post emergence- between emergence and time when the first potato plant have reached height of 5 cms.

Tomato: Pre-planting- a week before transplanting or post planting- 15 days after transplanting.

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

Headache, nausea, allergic manifestation, nervousness, anxiety, tremor, spasticity in muscles may occur.

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.

Antidote

No specific antidote is known. Treat symptomatically.

Disposal Of Used Container

1. Packages or surplus materials & washing from the machines & container should be disposed of in a safe manner as to prevent environment of water pollution
2. The used packages shall not be left outside to prevent their re - use
3. Packages shall be broken & buried away from habitation

Storage Conditions

- 1.The packages containing weedicides shall be stored in separate rooms or premises away from the rooms or premises used for storing other articles or shall be kept in separate almirahs under lock & key depending upon the quantity & nature of weedicides & insecticides
- 2.The rooms or premises meant for storing weedicides & insecticides shall be well built, dry well lit & ventilated & of sufficient dimension. To avoid contamination with vapours.

Chemical Composition:

Metribuzin Technical (Based on 88% w/w a.i.)	79.55 % w/w
Wetting agent Alkyl aryl sulphonate	5.00 % w/w
Dispersing Agent (alkaryl Mixture of salt of naphthelene sulphonic acid and sulphonate) phenol sulphonic acid condensate product	6.00 % w/w
Silica acid	8.00 % w/w
China Clay	1.45 % w/w
	Total: 100.000 % w/w
