

CIR-190761/2021-Metsulfuron methyl (WP) (430)-559

**Metsulfuron methyl 20% WP**

( Herbicide )

Metsulfuron Methyl is a post emergence herbicide belonging to chemical family of sulfonyl urea herbicides. Metsulfuron Methyl predominately controls broad leaf weeds of Wheat, Transplanted rice and Sugar Cane crops.

**Recommendation**

<u>Crop(s)</u>	<u>Common Name of Pest</u>	<u>Dosage/HA</u>		<u>Dilution in Water (L)</u>	<u>Waiting Period between last spray to harvest (days)</u>	<u>Re-entry after each Application (In Hours)</u>
		<u>AI (g)</u>	<u>Formulation (g)</u>			
Sugar Cane	Cyperus esculentus, Amaranthus viridis, portulaca Oleracea, Parthenium hysterophorus, Trianthema sp., Cleome viscosa, Solanum sp., Commelina benghalensis, Euphorbia sp., Digeria sp.	6	30	500-600	346	
Wheat	Chenopodium album, Melilotus indica, Lathyrus aphaca, Anagallis arvensis, Vicia sativa, Cirsium arvensis	4	20	500-600	80	
Rice (Transplanted)	Cyperus rotundus, Ludwigia sp., Sphaenoclea sp., Commelina bengalensis, Caesulia axillaris, Fimbrist	4	20	500-600	60	

### **Direction of Use**

Method of application:- As spary suspension in 500-600 lit water per hectare.

Recommandation for Surfactant Use: Add non ionic surfactant (ISO-Octyl-phenoxy poloxethanol 12.5%) @ 2 ml/litre of spray volume (0.2%) when used in the sugarcane and wheat crop. Surfactant not to be added when used in the Transplanted Rice Crop.

Herbicides not to be used in intercropping/mixed cropping.

Drift Management: Extreme care should be taken to avoid damage by drift onto broad leaf plants outside the target area or on to water sources.

### **Time of Application**

Wheat: 25-35 days after sowing (1 application).

Rice: 5-10 days after transplanting (1 application).

Sugar Cane: 10-15 days after planting (1 application).

### **Precaution**

- 1) Keep away from foodstuffs, empty foodstuff containers and animals feed.
- 2) Avoid contact with mouth, eyes and skin.
- 3) Avoid inhalation of the spary 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**

Irritation to eyes, tearing, blurred vision, skin irritation with rash 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 contaminate 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**

Empty containers should not be re-used. These should be rinsed with water (3 times) and pour rinsate to the spary mix. Alternatively pour the water in a disposal pit away from crop area and

water source. Empty containers should be broken and buried away 1/2 meter deep in soil away from habitation in a safe manner so as to prevent environmental and water pollution.

### **Storage Conditions**

Don't store or consume food, drink or tobacco in areas where they become contaminated with this material. Store the herbicide in its original pack tightly closed, away from reach of children, irresponsible person and livestock in a separate room, away from the room used for storing foodstuffs, animal feeds and other articles, under lock and key. The rooms or premises meant for storing shall be well built, cool, dry, well lit and ventilated and should be of sufficient dimensions to avoid contamination with vapour. Transport the herbicide in such a manner so as not to come in contact with food stuffs and animal feed.

### **Chemical Composition:**

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Metsulfuron methyl a.i.	20.00 % w/w
Mixture of naphthalene sulfonates, formaldehyde polymer, sodium salt	3.00 % w/w
Mixture of alkyl carboxylate and sulfonated alkyl naphthalene Sodium salt	1.00 % w/w
polyvinyl pyrrolidone	2.00 % w/w
Sorbitan monoesterate	0.50 % w/w
Surcose octaacetate	0.40 % w/w
Surcose	Q.S % w/w
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<b>Total: 100.000 % w/w</b>	

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