

CIR-181627/2021-Ethephon (SL) (428)-327

Ethephon 39% S.L

(Plant Growth Regulator)

Ethephon Plant Growth Regulator is approved for use on rubber, mango, coffee, pineapple and pomegranate plants and for post harvest treatments of Mango and Tomato

Recommendation

Crop(s)	Common Name of Pest	Dosage/HA		Dilution in Water (Ltr)	Waiting Period between last spray to harvest /Preparation of required conc.	Re-entry after each Application (In Hours)
		AI (ppm)	Formulation (ml)			
Pineapple	For flower induction	100	385-513	1500-2000	2.5 ml in 10 lit of water	
Pomegranate	Defoliation for better flowering and fruit yield	390-487.5	1000-1250	500	135 days (2-2.5 ml/lit water)	
Mango	For breaking alternate bearing tendencies.	200	770-1025	1500-2000	5ml in 10 lit of water	
	For flower induction in juvenile mango	1000	3846-5128	1500-2000	26 ml in 10 lit of water	
	Post harvest treatment	500	1923-2564	1500-2000	13 ml in 10 lit of water	
Coffee (Arabica)	Uniform ripening of berries	192	738-985	1500-2000	5 ml in 10 lit of water	
Coffee (Robusta)	Uniform ripening of berries	96	215-287	1500-2000	2.5 ml in 10 lit of water	
Tomato	Post harvest treatment	2500	-	-	65 ml in 10 lit of water	
Rubber	For boosting latex yield	1000	-	-	26 ml in 10 lit of water	

Direction of Use

Plant Protection Equipment :

For conventional spray (High volume sprayer) on field crop, quantity of water is recommended for other method of low volume & ultra low volume quantity of water varies. The most commonly used sprayers are bucket pump sprayer, stirup sprayer, compression knapsack sprayers etc. Use the

sprayer with hollow cone nozzle. Keep the nozzle at fixed height from the ground level and spray area in straight line at uniform speed.

Preparation of spray solution:

1 ml of ethephon plant growth regulator in 1 lit of water gives 480 ppm, Alkaline water should not be used for making spray solution

Precaution : Avoid spray drift to nearby crops. Do not contaminate water used for irrigation or domestic purposes. Do not re-use containers. Destroy it in a safe place. Do not use this for the purpose other than those described on the label. In case of contact with skin wash exposed areas thoroughly with soap water. If taken internally, induce vomiting by inserting fingers into throat. Drink copious quantities of water and obtain medical attention of gastric lavage. Medical treatment is symptomatic.

Time of Application

Mango (for breaking alternate bearing tendencies) : First spray in mid October or early November, total 5 spray at fortnightly interval

Mango (for flower induction) : Commencing from early November total 5 spray at weekly interval Mango (post harvest treatment): Dip mature fruits in the solution for uniform ripening. One treatment

Pineapple (for flower induction) : 30 - 37 leaf stage or 10 - 12 months. One spray.

Coffee (Arabica uniforming ripening of berries) & Coffee Robusta : Fly picking stage when 10 - 15% of berries ripened of one spray

Tomato (post harvest treatment) : Fruits post harvest treatment. Dipping only one spray

Rubber-- March, August, September, November (four application) brushing once in two months on the tapping cut of the bark.

Pomegranate: One spray around one month before Mrig bahar (June-July), Hast bahar (October-November) or Ambe bahar (December/January).

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

Headche, nausea, vomitting, giddiness,blurred vision, irritation to skin, eyes and mucous membrane 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 It shall be the duty of manufactures formulators 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 food or shall be kept in separate almirahs under lock and key depending upon the quantity and nature of the insecticide.
2. The rooms or premises meant for storing the insecticides shall be well lit, well built, dry, cool, ventilated and of sufficient dimensions to avoid contamination with vapour.

Chemical Composition:

Ethephon tech.	(Minimum purity 75% w/w a.i.)	52.00 % w/w
Propylene glycol		26.00 % w/w
Distilled water		22.00 % w/w
		Total: 100.000 % w/w
