



LUBRICANTS

POWER TO PERFORM

HP HMO SPRAY OILS

DESCRIPTION

HP HMO offers an environmental friendly, non-toxic, non-phytotoxic, biodegradable, residue free organic farming product as a solution for European Red Mite (ERM). ERM *Panonychus Ulmi* (Koch) has emerged as an important pest of apple in the last few years

It can be used for early season control of pests that overwinter on trees and shrubs, or it can be used during the growing season for variety of pest problems. It kills insects by smothering and is effective on insects in all stages of growth including the egg stage, clinging to the bark of trees and shrubs. Oil can be used for managing the overwintering populations of aphids, SAN JOSE scales, webworms, leafhoppers, tent caterpillars, mealy bugs, European red mites, etc.

GENERAL DESCRIPTION

- Mineral oil, emulsified to mix in water
- Broad –spectrum insecticide and miticide
- Acts upon contacts, by suffocation and disrupting other physical processes
- Sold as liquid concentrates
- No residual effects

AREAS OF USE: For control of European Red Mite in apples, outdoors on woody ornamentals and fruit trees including roses, shade trees, bushes, some evergreens and other hardy shrubs

BENEFITS:

- Effective pest control at low costs
- Variety of pests controlled simultaneously
- No build of immunity
- Optimized boiling range and non-phytotoxic
- Friendly to natural animals (beneficial insects)
- Negligible toxicity to humans and other vertebrates
- Imparts sheen to treated plants/fruit
- Easily forms emulsion even in cold climate



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RECOMMENDED RATE OF APPLICATION

Stage of use	Dosage	
	Parts of HP HMO (LTRS)	Parts of water (LTRS)
JAMMU AND KASHMIR	0.750	100
2 nd spray only if 5-8 mites remain (Pink bud stage)	0.750	100
3 rd spray (PETAL FALL STAGE)		
4 th spray (FRUIT SET SPRAY), 14-18 days after 3 rd spray and if No. of mites > 100	0.750	100
5 th spray (13-14) days after 4 th spray	0.750	100
HIMACHAL PRADESH		
1 st Spray (TIGHT CLUSTER)	3	200
2 nd spray (PETAL FALL STAGE)	2	200
3 rd spray (FRUIT DEVELOPMENT)	2	200

PRECAUTIONS:

- While spraying always stand behind the wind; do not let the spray come in contact with mouth, eyes, nose, skin and clothing
- Wash hands and face with clean water and soap before eating.
- After spray job take shower and put on clean clothing. Wash work clothes thoroughly.
- Do not use oil sprays or lime Sulphur sprays when freezing weather is predicted or when foliage is wet (sprays should have time to dry before rainfall or heavy dew forms)
- Do not use in hot weather (over 38°C), under dry conditions
- To prevent injury to plants, agitate the mix while spraying to keep the oil properly emulsified
- Do not dispose HP HMO in rivers, canals and waterways

FIRST AID:

- Wash exposed body part several times with clean water and soap
- If swallowed or ingested otherwise seek medical attention



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PHYSICO-CHEMICAL PROPERTIES

Appearance	Clear
Colour	2
Low Temp. Emulsion Test	Passes
Freeze Test (Low Temp Stability)	Passes
Pour Point °C	-6.0 Max
Kinematic Viscosity @ 40°C (cSt)	10-25

HP HMO has undergone extensive testing at various locations in Himachal Pradesh including RHRS, Mashobra the apple research station of Y S Parmar University, Nauni, Himachal Pradesh and also at different locations in the Kashmir valley with S.K. University of agriculture of Kashmir, Srinagar.