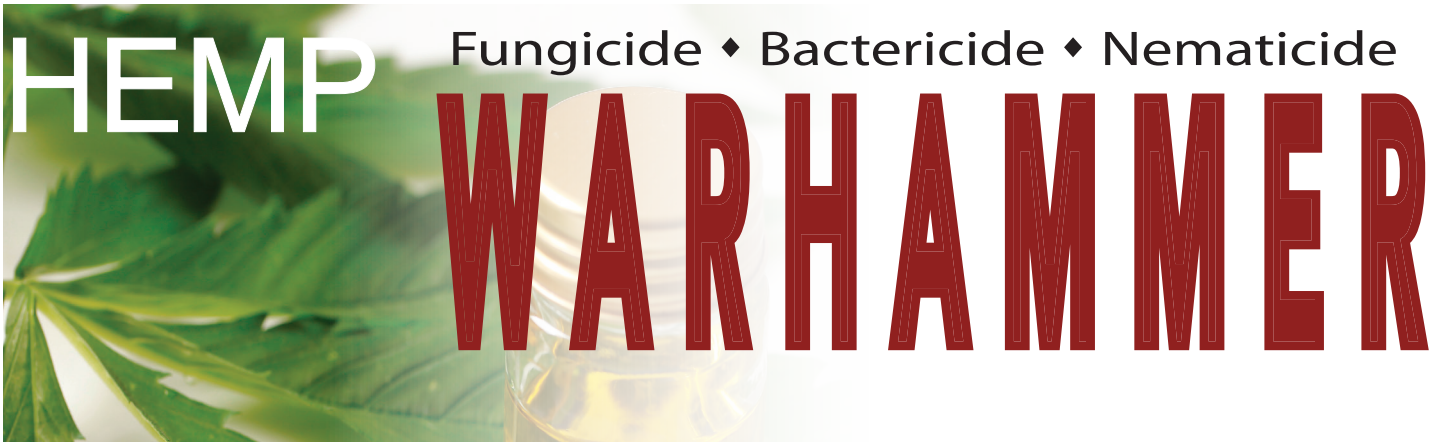


BLACKSMITH
BIOSCIENCE

Blacksmith BioScience
25018 Spring Ridge Dr
Spring TX 77386

Questions?
Send us a
message at
blacksmithbio.com/
contact
or call
832-647-9663.

WarHammer™ is a powerful crop management tool for HEMP & other crops for use against many diseases including Hops Latent Virus (HpLV)

Hops latent virus (HpLV) is a plant pathogenic virus that infects hops, hemp, and other plants. It is a non-capsidated strand of RNA that can cause stunted growth, brittle stems, reduced foliage, uneven trichome development, and chlorosis in infected plants. However, HpLV can also remain asymptomatic in some plants, making it difficult to detect and control.
Chitosan, the active ingredient in WARHAMMER, is a biopolymer derived from chitin. Chitosan has various applications in agriculture, such as enhancing plant growth, improving fruit quality, and controlling plant diseases. Research reports have demonstrated that chitosan can be used to suppress HpLV in cannabis plants

WARHAMMER CAN:

- Induce the production of antiviral compounds in plants, such as phenolic acids, flavonoids, and terpenoids, that can inhibit the viral infection.

- Enhance the resistance of plants to HpLV by activating their defense responses thus triggering the production of phytohormones, such as salicylic acid, jasmonic acid, and ethylene, that regulate various defense pathways in plants.

- **Improve** the quality and yield of plants infected by HpLV by reducing the symptoms and damage caused by the virus.

- Increase the chlorophyll content, photosynthesis rate, and antioxidant activities in leaves, and reduce the infection of HpLV by up to 75% compared to untreated control.





WARHAMMER
2.5 gal jug

WarHammer is an excellent tool for integrated pest management (IPM)

- Perfect rotational partner
- No Resistance issues
- Compatible with fertilizers
- Dissolves easily into solution
- 0-day PHI
- Non toxic

Application Rates:

Preventative:
4-12 oz/100 gallons of water as a foliar spray via airblast, backpack, aerial or other spray application
Repeat application every 1-4 weeks
For Existing Problems
Dilute 27 oz per 100 gal (spray as above)
For smaller applications
Use 3-8 ml per gallon

Not registered in all states. Always read and follow label directions. Forge is a registered trademark of Blacksmith BioScience 2023

www.blacksmithbio.com