Bio-control of Pests of Grapes by Neemazal

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EID Parry – The Journey

World’s largest manufacturer of Azadirachtin
Pioneer in Bio-pesticides from 1995
Pioneer in Fertilizers from 1906
Established in Sugar from 1842

227 YEARS OF EID PARRY
Murugappa Group

- Established in 1900
- 29 Business
- Manpower 32000
- Group turnover US$ 4.4 Bn

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Neemazal- Product Profile

Technical collaboration with M/S Trifolio, GmbH, Germany

- 24 Patents
- 19 Registrations
- 1100+ Publications
- 42 countries

Neemazal T/S 10,000 ppm
Neemazal F 50,000 ppm

Accreditations:
- FiBL
- BFA
- OMRI Listed
- DSIR
- ISO 9001:2008
- ISO 14001:2004
Neemazal – Multi location Trial on Grapes

Pests & Locations

2 Products

Neemazal T/S
10,000 ppm

Neemazal F
50,000 ppm

4 Locations

NRCG, Pune

TNAU, Coimbatore

UAS, Dharwad

UBKV, West Bengal

3 Pests

Thrips
Rhipiphorothrips cruentatus

Mealybugs
Maconellicoccus hirsutus

Mites
Tetranychus urticae

Neemazal – Multi location Trial on Grapes

Pests & Locations

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3 Pests

Thrips
Rhipiphorothrips cruentatus

Mealybugs
Maconellicoccus hirsutus

Mites
Tetranychus urticae
Ranks 9th in global grapes production

Ranks 8th in global export quantity

Top 10 Export destinations of Indian Grapes (‘000 MT)

- The Netherlands, 50.7
- UK, 18.0
- UAE, 13.1
- Russia, 13.8
- Saudi Arabia, 8.1
- Thailand, 3.2
- Sri Lanka, 3.1
- Ukraine, 3.4
- Finland, 1.6

Neemazal for control of pests of Grapes
Neemazal T/S against Thrips
(*Rhipiphorothrips cruentatus*)

Trial location: NRCG - Pune
Year: 2012-13
No. of applications: 3
Dose 3ml/lit

Source:
- Report On Bio-efficacy of Neemazal on Thrips, Mealybugs, Mites In Grapes (NRCG)
Neemazal T/S against Mealybugs
(Maconellicoccus hirsutus)

**Trial location:** NRCG, Pune
**Year:** 2012-13
**Product:** Neemazal T/S
**No. of applications:** 2,
**Dose:** 3ml/lit

**Source:**
- Report On Bio-efficacy and residue studies of Neemazal on Thrips, Mealybugs, Mites In Grapes (NRCG)
**Neemazal F against Mites**

*(Tetranychus urticae)*

**Trial location:** TNAU, Year: 2012-13, No. of applications: 3, Dose 1250ml/Ha

**Trial location:** UAS, Dharwad, Year: 2014-15, No. of applications: 2, Dose 1250ml/Ha

**Source:**
- Evaluation of Bio-efficacy of Neemazal T/S 1% EC and Neemazal F 5% EC against Pests of Grapes (TNAU)
- Report on Bio-efficacy of Neemazal F 5% against Thrips, Mites and Mealybug in Grapes (UAS-Dharwad)

*Data represents mean of 3 replications*
Neemazal T/S against Mites
(Tetranychus urticae)

Trial location: NRCG, Pune; Year: 2012-13; No. of applications: 2; Dose 3ml/lit

Source:
- Report On Bio-efficacy and residue studies of Neemazal on Thrips, Mealybugs, Mites In Grapes (NRCG)
Neemazal Residue studies
Residue studies of Neemazal T/S (10,000 ppm)

Result and conclusion*:
The residue dissipation data suggest that after application of Neem Azal 1%, azadirachtin (A+B) residues were detected up to 10 days. The maximum residue limit (MRL) prescribed by European union for azadirachtin is 1 mg/kg in grapes. Considering this MRL, the residues were below MRL on all the days including zero day. On the 15th and 30th day the residues were below the limit of quantification i.e. 0.02 mg/kg.

Instrument Details: LC- MS/MS (with API 4000 Q trap MS-Applied Biosystem) ; LOQ– 0.02 mg/Kg

Source:
- Excerpts from report on Bio-efficacy and residue studies of Neemazal on Thrips, Mealybugs, Mites In Grapes (NRCG)
Conclusion

Effective control of Thrips, Mites and Mealy bugs in Grapes

- No Residue
- No PHI
- Safe to Consumer
- Safe to Environment
- Organic in Nature
THANK YOU