Introducing

Debug® TRÉS

Debug TURBO

Debug® ON neem oil formulation

Debug Optimo

INSECTICDE NEMATICIDE FUNGICIDE MITICIDE

NANI NARAYANAN

AGRO
LOGISTIC SYSTEMS INC.
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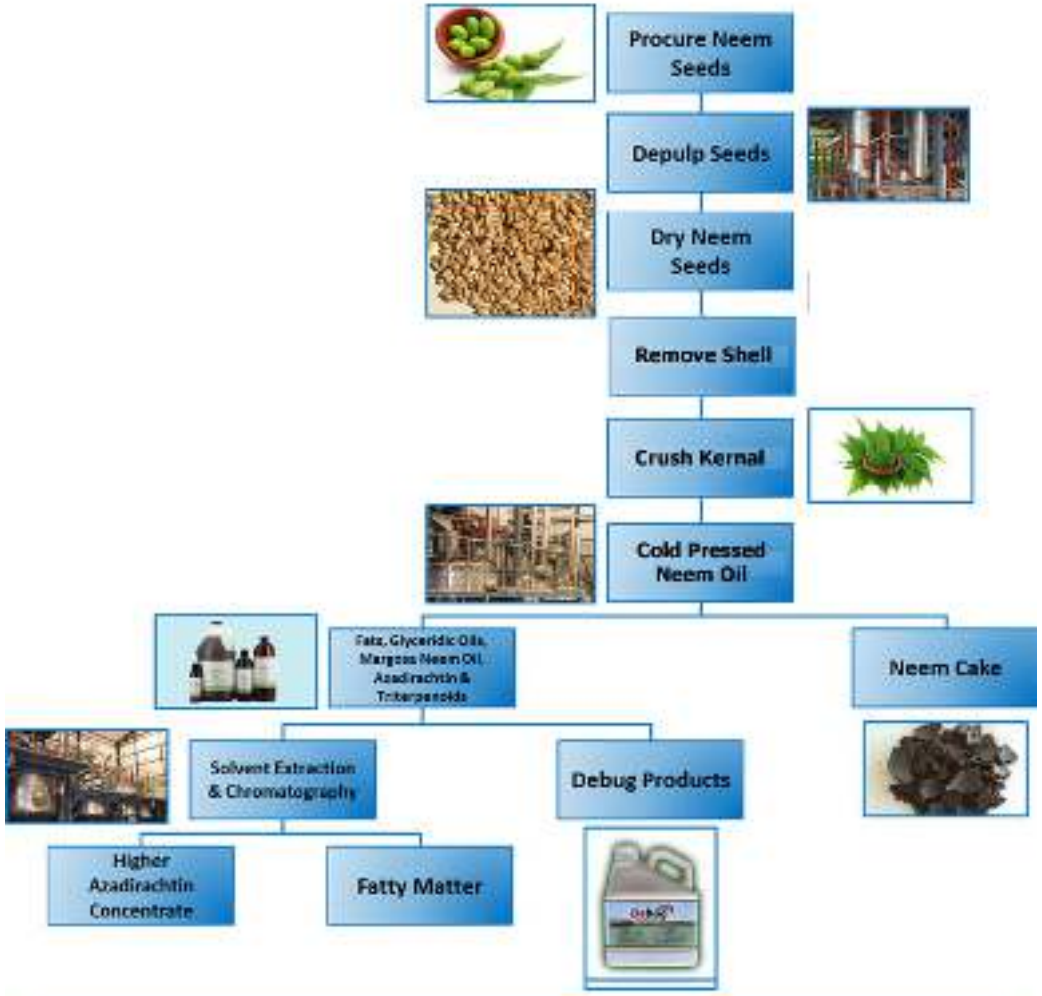
History of Neem

- Documented records since 400 BC for use in Agriculture
- Originated in India
- Spread to Asia, Australia, Africa , Australia & Caribbean
- Schmutterer and African experience

Neem has passed the test of time in its usefulness

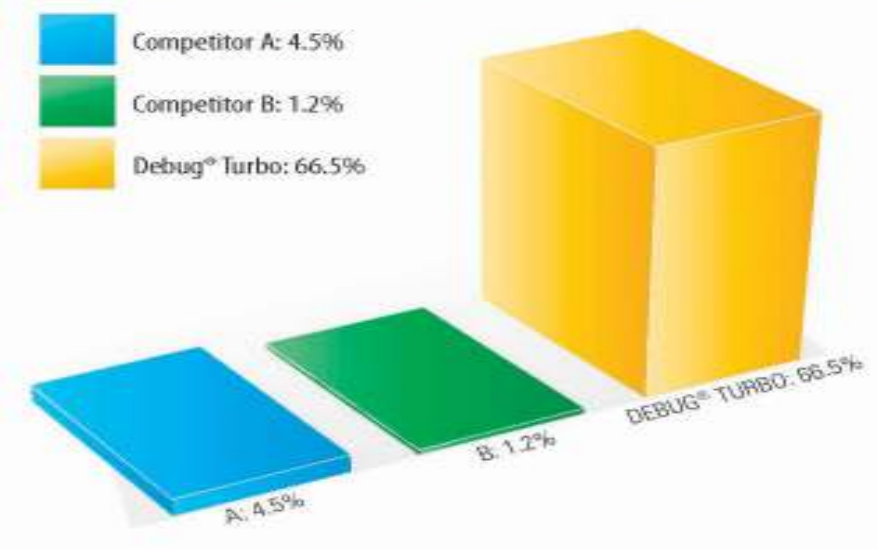
Chemistry

- Kernel extract used for pest management
  - Over 168 compounds – diverse and complex
  - Aza & other triterpinoids



DEBUG PRODUCTS HAVE
AZADIRACHTIN
PLUS
168 TRI-TERPENOIDS + OIL OF NEEM + SYNERGIST

Debug Products have high concentration of Active Ingredients



Debug Turbo & Debug Tres has multiple molecules

Other Neem insecticides have only single molecule

Debug® TRÉS

Debug TURBO

Debug Products are only products approved by USEPA for QUADRUPLE action

- Insecticide
- Nematicide
- Miticide
- Fungicide

Debug Optimo

Debug® ON neem oil formulation

Example of Dual action
Nematode control & Pink snow mold control in golf greens

Debug Difference

- More stable in sunlight.High AZA products degrade faster in sunlight
  - Research has shown that the biomass extract of the Neem seed is (at lower concentration of Azadirachtin) more effective than the formulations containing Azadirachtin alone
    - "Aladirachtin use efficiency in commercial neem formulations, R V Kumar, H C Jayadevi, H J Ashika, Dept. of Entomology, Univ of Agriculture Sciences, Bangalore, India
- Coventional pesticides lead to Resistance due to single molecule. Debug Turbo prevents resistance because of Presence of multiple compounds
  - Study showed a 9-fold resistance to pure azadirachtin treated weekly after 40 generations, whereas a parallel line treated with neem extract developed no resistance to the compound
    - Selection for Resistance to Aladirachtin in the Green Peach Aphid, R. Feng and M.B. Isman. Department of Plant Science, University of British Columbia, Vancouver,

Studies show that a multiple molecule product is more efficacious for botanicals

Debug® TRÉS

Debug TURBO

We are constantly improving our products

Debug® TRÉS

Debug Optimo

Debug® ON neem oil formulation

Debug TURBO	Debug TRÉS	Debug Optimo	Debug ON neem oil formulation
Debug® Turbo has several ingredients in a single product	Debug® Tres has several ingredients in a single product	Debug® Optimo has several ingredients in a single product	Debug® ON has several ingredients in a single product
Fats & Glyceredic oils Margosa (contains Tri-terpenoids & Neem Oil 65.8%	Fats & Glyceredic oils Margosa (contains Tri-terpenoids & Neem Oil 4.7%	Fats & Glyceredic oils Margosa (contains Tri-terpenoids & Neem Oil 15.0%	Fats & Glyceredic oils Margosa (contains Tri-terpenoids & Neem Oil 70.0%
Azadirachtin 0.7%	Azadirachtin 3.0%	Azadirachtin 0.7%	Azadirachtin
Total Active Ingredients 66.5%	Total Active Ingredients 7.7%	Total Active Ingredients 15.7%	Total Active Ingredients 70.0%
Carrier 15.0%	Carrier 5.7%	Carrier 28.4%	
Emulsifier/Surfactant 14.9%	Emulsifier/Surfactant 30.0%	Emulsifier/Surfactant 39.4%	Emulsifier/Surfactant 20.0%
Quadruple action - Insecticide - Nematicide - Miticide - Fungicide	**Quadruple action** - Insecticide - Nematicide - Miticide - Fungicide	**Quadruple action** - Insecticide - Nematicide - Miticide - Fungicide	**Quadruple action** - Insecticide - Nematicide - Miticide - Fungicide
Has Several AIs in Formulation AZADIRACHTIN + 168 TRI-TERPENOIDS + OIL OF NEEM + SYNERGIST	**Has Several AIs in Formulation** AZADIRACHTIN + 168 TRI-TERPENOIDS + OIL OF NEEM + SYNERGIST	**Has Several AIs in Formulation** AZADIRACHTIN + 168 TRI-TERPENOIDS + OIL OF NEEM + SYNERGIST	**Fats &Glyceredic Oil Margosa** AZADIRACHTIN + 168 TRI-TERPENOIDS + OIL OF NEEM
Less UV degradation	**Less UV degradation**	**Less UV degradation**	**Less UV degradation**
Prevents Resistance	**Prevents Resistance**	**Prevents Resistance**	**Prevents Resistance**
Insect and Mildew Control. Proven results	**High Azadirachtin + more. Better alternative to Azadirect and Neemix**	**Stable in lower temperature** **Lower Neem Oil than Debug Turbo**	**Trilogy Replacement**

Debug Turbo works in multiple ways

- **Insecticide-** Debug® Turbo kills a broad spectrum of insects in their various stages of development
- **Repellent-** Debug@Turbo prevents Insects from entering treated Area
- **Anti-feedant-** Debug® Turbo deters insects from feeding on the treated surfaces.
- **Insect Growth Regulator-** Debug® Turbo Ingested young insects do not reach adulthood It is also an ovi-position deterrent and disrupts the molting process of insects.

Debug® TRÉS

Broad Spectrum control on several Crops & Insects

Debug TURBO

Debug Turbo Controls

- Insects -Mites
- Diseases -Nematodes

ANTS
APHIDS
BEETLES including Beanleaf Beetfes, Cucumber Beetfes, Japanese Beetfes, Mexican Beetfes, Colorado Potato Beetfes, Potato Flea Beetfes, Corn beetfes, Flea Beetfes
BORERS
BUGS including Chinch bugs, Lace bugs, Spittfe bugs
CASEBEARER
CATERPILLAR
CODLING MOTH
FRUITFLIES
FUSARIUM
GNATS, Fungus Gnats
GRASSHOPPERS
GRUBS
LEAFHOPPERS
LEAFMINERS
LEAFROLLERS
LOOPERS including Cabbage loopers
LYGUS
MAGGOTS including Onion Maggots
MEALYBUGS
MILDEW including Rust and Powdery Mifdew,
MITES including Two Spotted Spidermites, Pacific Spider Mites
MOTHS including Diamondback Moths, Gypsy Moths, Grape Berry Moths,
NEMATODES incfuding Rootknot, Sting, Stem gall, Dagger, Spiral
ORANGE TORTIX
PHYLLOXERA
PHYTHIUM
PSYLLA
PSYLLIDS
RHIZOCTONIA SOLANI
SCALES
SCLEROTINIA SCLEROTIORUM
SCLEROTIUM ROLFSIf
SHARPSHOOTERS
THRIPS
WEEVILS including Pepper Weevifs, Boll weevils
WHITEFLIES
WORMS including Army worms, Wireworms, Webworms, Budworms, Alfalfa Worms, Boll Worms, Pickle Worms, Root Worms, Ear Worms,Cut Worms, etc

Use Debug Turbo on

Agricultural, Horticultural &Greenhouse applications Vegetables, Fruits, Ornamentals & Turf.

All common grasses including poa, Bermuda etc and, Alfalfa and other feed & forage crops

Ornamentals such as Chrysanthemums, Poinsettias, Roses, Lillies, Geraniums,Daisies, Carnations, Salvias and Dahlias, Hastas & Herrnacalles

Fruits such as Grapes, Citrus, Lemons, Oranges, Grapefruits, Apples, Plums, Peaches, Apricots, Avocados, Figs, Pears. Mangoes, Cherries, Persimmons etc

Vegetables such as Cucurbits, Watermelons, Gherkins, Squashes, Pumpkins, Gourds, Bitter melons, Chayote, Okra, Asparagus, and Melons.

Bulb, Cole and Leafy vegetables such as Broccoli, Brussel sprouts, Cabbage, Celery, Lettuce, Endives, Kale, Parsley, Onions, Garlic, Shallot, Leek, Kohlrabi, Chard, and Spinach

Root and Tuber vegetables such as Beet, Carrot, Ginger, Radish, Horseradish,Potato, Turnip, Yams, Sweet Potato, Ginseng, Rutabagas, Watercress, and Turmeric.

Artichoke

Legumes such as Beans, Lentils, Peas, Peanuts etc.

Fruiting vegetables such as Tomatoes, Tomatillos, Bell Peppers, Chili Peppers, and Eggplants

Berries such as, Blackberries, Blueberries, Strawberries, Cane berries, Gooseberries, Raspberries, Cranberries etc.

Tropical fruits such as Banana, Cherimoya, Mango, Guava, Papaya and Pineapple.

Herbs & Spices including but not limited to Mint, Anise, Basil, Chives, Coriander,Dill, Fennel, Marigold, Sage, and Thyme.

Nuts such as Almonds, Pecans, Pistachios, Cashews, Chestnuts, Macadamia,Hazelnut, Brazil nut, Water chestnut, and Walnut.

All Greenhouse and nursery starter vegetables and fruit crops.

Debug® TRÉS

Debug TURBO

Key Features

- Quadruple action
  - Insecticide
  - Nematicide
  - Miticide
  - Fungicide
- Highest concentration of Active Ingredient
- Several AI in one formulation
  - Azadirachtin
  - Several tri-terpinoids
  - Oil of Neem
  - Synergist
- Less cost per acre and better efficacy

Debug Optimo

Debug® ON neem oil formulation

DEBUG TRES GIVES YOU A LOT MORE FOR LOT LESS COST

- ✓ More Active Ingredients per acre
- ✓ More Adjuvants per acre
- ✓ Additional ingredients

&

✓MAKE MONEY GROW ON PLANTS

- ✓ Grower saved 27%

Additional Advantages

- Compared to other products, the Debug® Turbo offers
  - UV degradation and
  - Less chance of insects developing resistance
- Debug®Turbo can be used in tandem with conventional pesticides, Pyrethrins and Spinosad to comply with EPA established tolerance limits.
- Debug® Turbo has one of the lowest Re-Entry Interval (REI) and Pre-Harvest Intervals (PHI) so the crop can be harvested the same day
- Beneficials can be used synergistically or in tandem with Debug® Turbo as it does not harm beneficial parasites and predators

Debug Products in conventional farming

Low REI and PHI

- Important during harvest.

Low tolerance limits

- Conventional pesticides allow low dosage and limited application
- Debug Turbo as a stop gap arrangement

Debug® TRÉS

Debug® TURBO

NOP approved for ORGANIC production and…….

WSDA registered
for Organic Food Program

OMRI listed

Debug® Optimo

Debug® ON neem oil formulation

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E-Mail: pestreg@agr.wa.gov

Date Printed: 12/08/2016
SF

PESTICIDE REGISTRATION CERTIFICATE

01/01/2017 - 12/31/2018

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The following pesticide products have been registered for distribution in the state of Washington through 12/31/2018 unless otherwise noted. This registration certificate supercedes any previous registration certificate.

N/R	EPA/State Reg. No.	Product Name	Label ID	Dept Use Only H&G State File # ONLY RUP
SECTION 3				
R	70310-5 Approved: 01/01/2017	Debug Turbo - Agriculture, Horticulture & Greenhouse Use **Ingredients** Azadirachtin (0.7%) Neem oil (Margosa oil) (65.8%)	none	3
R	70310-8 Approved: 01/01/2017	Debug Tres **Ingredients** Azadirachtin (3%) Neem oil (Margosa oil) (4.7%)		4

Our Customers include…

Large & Small Farms

- Grimmway Farms
- Earthbound Farms
- Tanimura & Antle
- Orange County Land Mgmt
- Agricola El Toro
- Peri Farms
- And many more

Fruits, Vegetable and Nut Growers

- Strawberry
- Grapes
- Vegetable
- Greens
- Almonds
- Golf Courses
- Green Houses
- Mushroom

TRIAL DATA

- Best control of lettuce Aphid on a comparative trial vs Neemix and Azadirect. Full control of army worm, cabbage looper on Lettuce
  - Bio Research, CA
- Controlled silver leaf, white fly and Boll weevil in cotton
  - USDA Cotton research lab, Arizona
- Control of thrips, lygus, mites in strawberries in Orange county, Santa Maria and Watsonville
  - Agriculture Research Lab
- Control of Blueberry maggots in New Jersey and Michigan
  - Rutgers University
- Debug Turbo was effective in control of Thrips in Tomato
- Control of Aphids and whiteflies in Tomatoes in California and Sinaloa, MX
  - University of Sinaloa
  - IIBAT

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  - University of Sinaloa
  - IIBAT
- UC Berkeley – Debug Turbo had 30% more mortality in Leaf Hopper nymphs

Debug Turbo

Lettuce, Broccoli, Celery, Cauliflower, etc

Conventional & Organic Veggies

Pests Controlled

Aphids, Leafminers, Thrips, and Lygus. Mites, Mildew etc.

Rate

16 - 104 fl oz (Rate dependant on Infestation)

PHI: 0

REI: 4 hours or when dries

Note

Coverage is key,

Maintain a pH of 5.5

Debug Turbo

Strawberries, Raspberries, Blueberries

Conventional & Organic

Pests Controlled

Aphids, Leafminers, Thrips, and Lygus. Mites, Mildew etc.

Rate

16 - 104 fl oz (Rate dependant on Infestation, 104 fl oz is optimal rate).

PHI: 0

REI: 4 hours or when dries

Note

Coverage is key,

Maintain a pH of 5.5

Debug Trés

Lettuce, Broccoli, Celery, Cauliflower, etc

Conventional & Organic Veggies

Pests Controlled

Aphids, Leafminers, Thrips, and Lygus. Mildew

Rate

10-22.5 fl oz (Rate dependant on Infestation)

PHI: 0

REI: 4 hours or when dries

Note

Coverage is key,

Maintain a pH of 5.5

Debug Trés

(Strawberries, Raspberries, Blueberries)

Conventional & Organic

Pests Controlled

Aphids, Leafminers, Thrips, and Lygus. Mites, Mildew etc.

Rate

10-22.5 fl oz (Rate dependant on Infestation, 22.5 fl oz is optimal rate).

PHI: 0

REI: 4 hours or when dries

Note

Coverage is key,

Maintain a pH of 5.5

Debug® TRÉS

Debug TURBO

Thank you

Debug Optimo

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