



# IR-4 Food-Use Product Updates

July 20, 2021 • NASDAQ: MBII





# OVERVIEW

## Introduction to product updates

- Label expansion for Stargus Biofungicide in California
- Updates on labels where hemp has been added
- New 2ee labels issued in 2021
- Pending EPA Expansion of Venerate Bioinsecticide and Majestene Bionematicide Labels
- EPA submission for new MBI-306 TGAI and MBI-306 EP: Next Gen Bioinsecticide, Bionematicide, Biomiticide





# Label Expansion - California



## Commodities added – new crops

- Hemp
- Turfgrass
- Pome fruits including Apple, Crabapple, Loquat, Mayhaw, Oriental Pear, Pear, Quince
- Stone fruits including Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum, Plumcot, Prune
- Tree nuts including Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (Black and English)
- Cereal grains including Barley, Buckwheat, Corn (Sweet Corn, Field Corn, Popcorn, Silage corn, Seed corn, and other corn crops including crops grown for seed), Milo, Millet, Rice, Rye, Sorghum, Triticale, Wheat
- Tobacco
- Ornamental plants





# Label Expansion - California



## Commodities added – new crops (continued)

- Flowering plants
- Bedding plants
- Peanut
- Quinoa
- Sugarcane
- Grass seed
- Ornamental grasses
- Shade and ornamental trees and forests
- Tree farms and plantations including conifers, Christmas trees and Deciduous trees
- Leaves of root and tuber vegetables including Beet, Chervil, Rutabaga, Turnip





# Label Expansion - California



## Commodities added to existing crop groups

- To existing Root and tuber vegetables: Parsnip, Rutabaga, Sugar Beets, Yam
- To existing Cucurbit vegetables: Chayote, Chinese waxgourd
- To existing Citrus fruit: Lime
- To existing Berries and small fruit: Kiwi
- To existing Oilseeds: Cotton





# Label Expansion - California



## Pathogens added

- *Alternaria* spp.
- *Botryosphaeria dothidea*
- *Botrytis* spp. including *Botrytis cinerea*
- *Cercospora* spp.
- *Colletotrichum* spp.
- *Erwinia* spp.
- *Glomerella tucumanensis*
- *Lanzia* spp.
- *Moellerodiscus* spp.
- *Monilinia laxa*
- *Oidium* spp.
- *Phytophthora* spp.
- *Podosphaera leucotricha*
- *Pythium* spp.
- *Rhizoctonia* spp.
- *Sclerotinia* spp.
- *Tilletia* spp.
- *Xanthomonas* spp.







# Label Expansions - Hemp

- Registered Labels with Hemp
  - STARGUS® BIOFUNGICIDE: approved in ALL states; one of the first new hemp approvals in CA
  - REGALIA® BIOFUNGICIDE: all non-CA USA states approved in 2020, CA approval est. Q3 2021
- 24c State Registrations for Hemp in Indiana
  - GRANDEVO® CG BIOINSECTICIDE
  - GRANDEVO® WDG BIOINSECTICIDE
  - VENERATE® XC BIOINSECTICIDE
  - VENERATE® CG BIOINSECTICIDE
- Pending Hemp Label Additions
  - GRANDEVO WDG: Q3 2021 supplemental label (ex-CA US States), US label est. 2022
  - GRANDEVO CG: Q3 2021 supplemental label (ex-CA US States), US label est. 2022
  - VENERATE XC: Q4 2021 supplemental label (ex-CA US States), US label est. 2022
  - VENERATE CG: Q4 2021 supplemental label (ex-CA US States), US label est. 2022





## New zee's issued in 2021

Product brand name	Commodities	Pests	Application method
<b>Grandevo®</b> <b>WDG</b> <b>Bioinsecticide</b>	Pome fruits (apples, pears)  Stone fruits (apricots, cherries, nectarines, peaches, plums)	Plum curculio ( <i>Conotrachelus nenuphar</i> )	Foliar
<b>Majestene®</b> <b>Bionematicide</b>	CORN (field corn, sweet corn, popcorn and corn grown for seed)	<u>In-furrow:</u> Western and Northern corn rootworm larvae Seed corn maggot Wireworms White grubs  <u>Foliar:</u> Black cutworm	In-furrow, foliar







# Pending 2021 EPA Label Expansions

- Venerate XC and Venerate CG Bioinsecticides, and Majestene Bionematicide
- EPA Approval expected August of 2021, available on container labels approximately mid-2022
- Changes include:
  - Add hemp as new crop
  - Add animal forage and feed crops (alfalfa)
  - Fill out commodities listed under crop headings





# New Active Ingredient EPA Submission in 2021: MBI-306 TGA1 and MBI-306 EP

- Estimated EPA registration 2023
- Next Generation Bioinsecticide, Bionematicide, and Biomiticide
- Similar Crops, and Expanded Pest Spectrum Compared to Venerate and Majestene product lines, with significant reduction in application rates
- Competitive with Conventional Chemical Rates and Efficacy

