

**Biotechnology for
Agriculture**



BIOPESTICIDES 2023



www.sonaragro.com

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* All these biopesticides products are registered by our company so we can provide all documents for its registration in your country.

POST-HARVEST

BOTANICAL FUNGICIDES

Active materials

- 1 SUGAR CANE EXTRACT 43%
- 2 CITRUS AURANTIFOLIA EXTRACT 28.7 % + ANANAS COMOSUS EXTRACT 4.0 %
- 3 MELALEUCA ALTERNIFOLIA EXTRACT 23 % + CLOVE EXTRACT 18 % + CITRUS AURANTIFOLIA EXTRACT 9 %
- 4 CLOVE EXTRACT 23.5%

Our brand

EKO LATEX 43 SL

EKO POSTFORTE 32.7 SL

EKO POSTFORTE MAX 50 EC

EKO POSTFORTE SILVER 23.5 OD

Product examples



SUGAR CANE EXTRACT 43%



MELALEUCA ALTERNIFOLIA EXTRACT 23 % + CLOVE EXTRACT 18 % + CITRUS AURANTIFOLIA EXTRACT 9 %

FUNGICIDES

BOTANICAL FUNGICIDES

Active materials

- 1 MELALEUCA ALTERNIFOLIA (TEA TREE OIL)
EXTRACT 24%
- 2 MELALEUCA ALTERNIFOLIA (TEA TREE OIL)
EXTRACT 24 % + BERBERINE 3 %
- 3 MELALEUCA ALTERNIFOLIA (TEA TREE OIL)
EXTRACT 9,7% + CLOVE EXTRACT 23%
- 4 MELALEUCA ALTERNIFOLIA (TEA TREE OIL)
EXTRACT 23 % + CLOVE EXTRACT 18 % +
CITRUS AURANTIFOLIA EXTRACT 9 %
- 5 SUGAR CANE EXTRACT 43%
- 6 CITRUS AURANTIFOLIA EXTRACT 28,7 % +
ANANAS COMOSUS EXTRACT 4,0 %
- 7 PHYSCION 1,50 % + CNIDIADIN 1 ,50 % SC
- 8 CLOVE EXTRACT 23,5%
- 9 AZADIRACTINE 0,8 % + BERBERINE 0,5 % EC
- 10 OREGANO EXTRACT 21 OD
- 11 COMOSUS PINEAPPLE EXTRACT 26 +
SACCHARUM OFFICINARUM EXTRACT 33 SL
- 12 GOBERNADORA EXTRACT 95 + BERBERINE 3 EC

Our brand

- BANAFORCE 24 EC
- NATURPRO 27 OD
- EKO POSTFORTE GOLD 32.7 SL
- EKO POSTFORTE MAX 50 EC
- EKO LATEX 43 SL
- EKO POSTFORTE 32.7 SL
- BIOPHAGO PHYSCION 3 SC
- EKO POSTFORTE SILVER 23,5 OD
- BIOPHAGO BERBERINE 1,3 EC
- BANAFORCE 21 OD
- GRATEFUL 59 SL
- PROTECMAX LARREA 98 EC

BIOPESTICIDES

FUNGICIDES

BOTANICAL FUNGICIDES

Product examples



**MELALEUCA ALTERNIFOLIA
(TEA TREE OIL) EXTRACT
24.0 % + BERBERINE 3.0 %**



**CITRUS AURANTIFOLIA
EXTRACT 28.7 % + ANANAS
COMOSUS EXTRACT 4.0 %**

BIOPESTICIDES

INSECTICIDES

BOTANICAL INSECTICIDES

Active materials

- 1 ALLICIN 1.27 X 10⁻³ %, CAPSAICIN 2.36 X 10⁻⁵%, CINNAMON CINNAMALDEHYDE 3.47 X 10⁻² %, COUMARINS 1.53 X 10⁻³ %, ALIPHATIC HYDROCARBONS 45% EC
- 2 ROTENONE 3 + AZADIRACTINE 1.50 SL
- 3 MATRINE 1.25 + PIRETRINE 5 OL
- 4 AZADIRACTINE 3.2 EC
- 5 NICOTINE 10 EC
- 6 NICOTINE 12 + ROTENONE 9 EW
- 7 GARLIC ESSENTIAL EXTRACT 20 + CINNAMON EXTRACT 40% EC
- 8 OLEIN VEGETAL OIL 97 % (PALMA AFRICANA)

Our brand

- ALGICROP 45.04.EC
- EKO AZAD 4.5 SL
- EKO MATRI 6.25 OL
- EKO NEEM 3.2 EC
- EKO NICO 10 EC
- EKO ROTEN 21 EW
- GENEBION 60 EC
- SINONIMO 97 EC

Product examples



**GARLIC ESSENTIAL EXTRACT
20 + CINNAMON EXTRACT
40% EC**



**OLEIN VEGETAL OIL 97 %
(PALMA AFRICANA)**

ORGANIC ADJUVANTS

ORGANIC ADJUVANTS are materials added to crop protection products or agrochemicals to enhance the efficacy of active ingredients and improve the overall performance of the product.

These additives modify the properties of the spray solution, which improves the ability of the active ingredient to target, penetrate or protect the target organism.

Organic adjuvants can be incorporated into a formulation (built-in /in-can adjuvant)

or can be added separately into the spray tank alongside other agrochemical products (tank mix adjuvant).

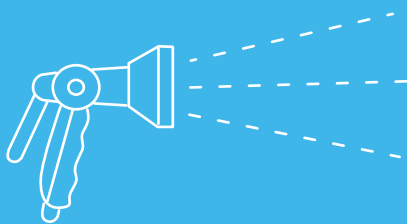
ORGANIC adjuvants enhance product performance by:

Providing more efficient delivery of active ingredients.

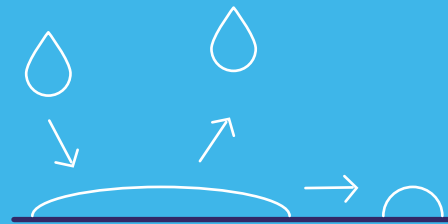
Reducing the level of active ingredients required.

Extending the spectrum of effectiveness.

Replacing high-value or high-toxicity active ingredients with lower value surfactants.



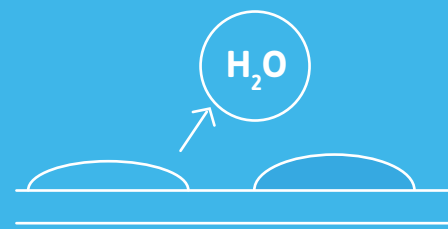
SPRAY FORMATION



SPRAY RETENTION



WETTING



DEPOSIT FORMATION



UPTAKE

ORGANIC ADJUVANTS

Active materials

- 1 VEGETABLE OIL 97%
- 2 OLEIN VEGETAL OIL 97 % (PALMA AFRICANA)
- 3 ALIFACTIC HYDROCARBON 40
+ HIDROGENATED TRYACYLGLYCEROLS 20 EC
- 4 OLEIN VEGETAL OIL 52 % + POLYOXYETHYLENE
SORBITAN TRIOLEATE 25 % + TRIXILOXANE
POLYETHER 3 %
- 5 HYDROGENATED TRYACYLGLYCEROLS 21

Our brand

- BANAFORCE OIL 97 EC
- CINTILLO 97 EC
- EKO ADHEFORCE 60 EC
- EKO ANTIDERIVA 80 OD
- EKO OIL 21 SC

Product Examples



**ALIFACTIC HYDROCARBON 40
+ HIDROGENATED
TRYACYLGLYCEROLS 20 EC**



**OLEIN VEGETAL OIL 52 % +
POLYOXYETHYLENE
SORBITAN TRIOLEATE 25 % +
TRIXILOXANE POLYETHER 3 %**

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★ All these biopesticides products are registered by our company so we can provide all documents for its registration in your country.