



# APPLICATION TECHNOLOGY



## THE COMPANY

Established in 1985, Forquímica® has more than 38 years of experience in agribusiness and a wealth of knowledge acquired through years of investment in its own research. Forquímica® develops sustainable agricultural projects with the support of a highly-qualified field team.

The high economic growth rate and the favorable market conditions in the following years allowed for the diversification of the company, offering services in other market niches.

The Forus Group was created to unify the administration and supply chain of the various companies' products. Together through dedicated work, the 12 companies that make up Forus Group offer the highest quality service and products.

## TECHNOLOGY WORKING FOR YOU

Our mission is to be present in all developmental stages of agricultural crops in the field, to reach maximum productive potential of crops and to exceed expectations throughout the production process.

We are engaged in collective and daily work in the field, where our technical and commercial teams are distributed and organized in various regional offices throughout Brazil, Paraguay, Bolivia, Argentina, Uruguay, Mexico, Colombia and the United States. They are managers, consultants, agronomists, technicians and distributors with a single objective to provide you, the farmer, with the necessary technical advice to deliver better-than-expected results with every project.

In this way, we build a prosperous and lasting relationship with our partners, based on the service of our team and the quality of our products and services.

All this to always produce more alongside you.

## ABOUT US

### →MISSION

Transform our clients' lives with innovative projects and services.

### →VISION

To be recognized as a leader in reference on technology and innovation.

### →VALUES

Customer-focused quality; Credibility in relationships; Appreciation and respect for life; Research and innovation; Respect for the environment; Gratitude to God.



FOR US.  
FOR ALL THE U.S.





**SUPPORT → Industry FROM MOULTRIE, GA**

Industry size: 53819.55 ft<sup>2</sup> • Line of Production:  
Seed Treatments, Foliar Fertilizers, Adjuvants,  
Biostimulants, Specialties and Custom Trade.



**FROM USA TO MEXICO AND COLOMBIA**



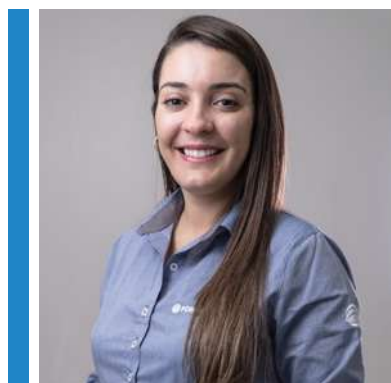
**STAFF - Responsible for:**

- Business Operations
- Production



**Marcelo Augusto Campos**

Agronomist - MS Conservation Agriculture  
Business Development Manager  
☎ +1 (229) 415-5167  
✉ marcelo.campos@forquimica.com



**Ana Paula de Freitas**

Chemist  
Control Quality Manager  
☎ +1 (229) 474-2435  
✉ ana.freitas@forquimica.com



FOR US.  
FOR ALL THE U.S.



# APPLICATION TECHNOLOGY

Solution to field challenges.



**FORQUÍMICA®**

INNOVATING VALUES IN AGRO

# GOODSPRAY **1ONE**

Application Technology



**+ DEPOSITION**

**+ CONTROL**

## → MAIN BENEFITS

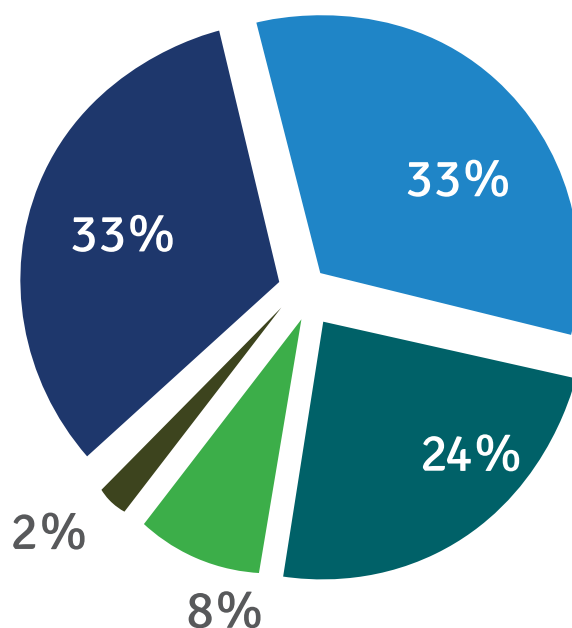
1. Better solubilization of the products, reduction of problems with foaming and greater fluidity of the spray mixture.
2. Increased sprayer operating efficiency with reduced downtime for cleaning tips and filters.
3. Optimization of the deposition of spray droplets, with greater overlap of the plants.
4. Higher wetting intensity, providing greater efficiency of applied products.

## EFFICIENCY IN THE PREPARATION OF TANK MIX AND SPRAYING QUALITY



According to USDA (2023), only pesticides (without operating costs) represents about 14% of total costs in peanuts, 11% in cotton, 8% in soybean and 5% in corn.

Main sources of loss during application of phytosanitary products.



Tank mix

Drift

Equipment

Label error

Area error

90% of losses that occur in the field are related to tank mix, with drift or with some nonconformity in the spray equipment.

\*Always consult an agronomist or responsible technician.



# GOODSPRAY **1ONE**



**GOODSPRAY ONE** is the complete solution for all application stages of agricultural pesticides.

## ACTION WITHIN THE TANK MIX SYSTEM.

- Sequesters reactive cations present in water;
- Prevents reactions between products, improving the conditioning of the mixture and reducing the agglomeration of particles;
- Reduces foam formation;
- Keeps the spray system clean.

## ACTION IN THE QUALITY AND SECURITY OF THE APPLICATION.

- Helps to reduce drift;
- Increases the spread of drops on the surface of the target;
- Provides greater wetting, helping the absorption of products by the leaf;
- Increases target coverage, particularly in the lower third of the crop.

## DIRECTIONS FOR USE

### GOODSPRAY ONE

#### GUARANTEE ANALYSIS

Urea	2.22%
Surfactants	20.5%
Inert Ingredients	77.28%
Total	100%

#### DIRECTIONS FOR USE - SHAKE WELL BEFORE USING

CROPS	(GAL/ACRE)	RATE/ACRE
Row Crops	10 - 15 15 - 20	1.5 - 2 oz 2 - 3 oz
Vegetables	25 - 50 50 - 100	4 oz 5 - 6 oz
Pecan and Other Fruit Trees	50 - 100 100 - 200	6 oz 8 - 16 oz

\*Always consult an agronomist or responsible technician.

## Competitor



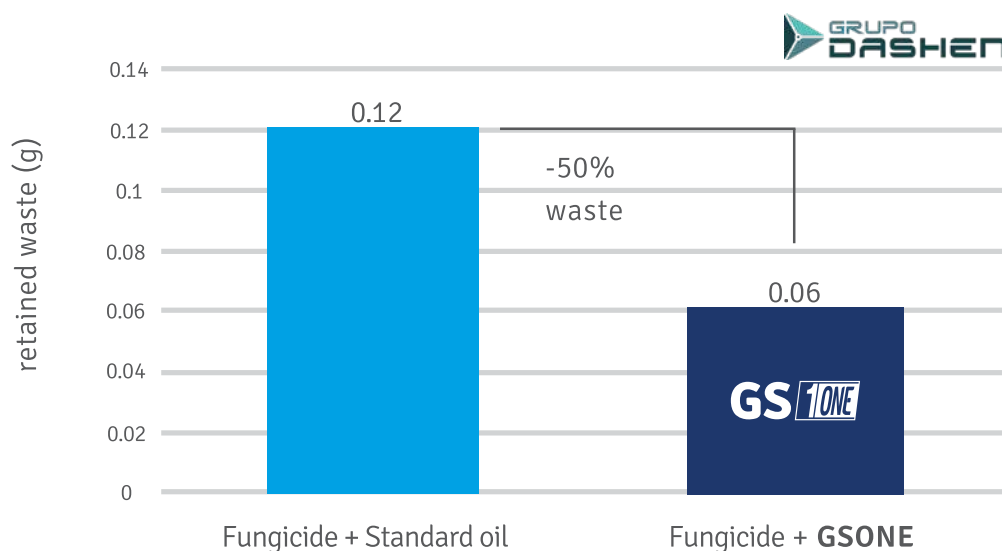
Orange oil: 2 oz/acre;  
 Mancozeb + Tebuconazole + Picoxystrobin: 31.5 oz/acre;  
 Imidacloprid + Bifenthrin: 5.5 oz/acre;  
 Fenpropimorph: 3.4 oz/acre;  
 Abamectin: 5.5 oz/acre;  
 Vegetable oil: 0.20%

## GOODSPRAY ONE



**GSONE**: 0,15%;  
 Mancozeb + Tebuconazole + Picoxystrobin: 31.5 oz/acre;  
 Imidacloprid + Bifenthrin: 5.5 oz/acre;  
 Fenpropimorph: 3.4 oz/acre;  
 Abamectin: 5.5 oz/acre;  
 Vegetable oil: 0.20%

### Residues retained in the hydraulic circuit (50, 80 and 100 mesh filters)



The result shows that the product significantly reduces the residues retained in the spraying system (50%), bringing a triple gain to the producer: less residues in the equipment means more defense going to the field, which provides greater protection to the crop; good fluidity of the solution and reduction in the accumulation of residues; preservation of spraying equipment, which reduces downtime for cleaning, increasing operational performance and reducing maintenance costs.



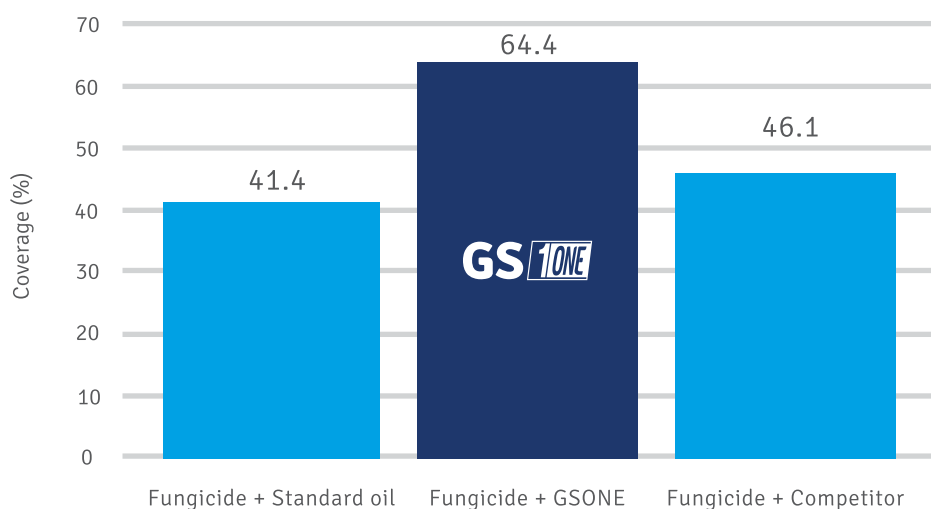
## Evaluation of GSONE for increased control of **pecan scab** when compared to **other adjuvants**.



Research carried out in Lowndes County. Variety: Cunnard. Application amount: 100 ga/a; Products rates: Elast 36 fl oz/a; Super Tin 9 fl oz/a; GoodSpray ONE 0.15%; Competitors 0.25%.

# GOODSPRAY 1ONE

Coverage in the lower third of Soybean



GRUPO DASHEN

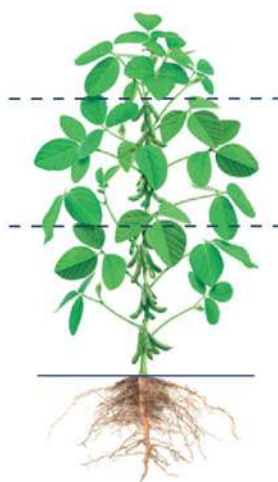
One of the biggest challenges in application technology is to provide adequate coverage work together for increased efficiency of pesticides, resulting in increased plant health and productivity.

## COMPETITOR

T°F: 83.66  
U%: 58.5  
Wind: 4.78 mph



Application fee: 100 L/ha



## GOODSPRAY 1ONE

T°F: 86.36  
U%: 55.5  
Wind: 4.86 mph



## Features of GSONE

PRODUCT	Solution Conditioner	Reduction of Waste	Reduction of Foam	Cations Sequester	Reduction of Drift	Reduction of Evaporation	Spreader	Target Coverage
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\*Always consult an agronomist or responsible technician.



# GENER ALL

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**ADJUVANT recommended for use with HERBICIDES.**



**NOTE:** IT DOES NOT REPLACE MINERAL OIL IN APPLICATIONS WITH HERBICIDES.

## PRODUCT CHARACTERISTICS

- ▶ Reduces the drift formed in the application;
- ▶ Reduces foam formation;
- ▶ Increases drop spread on the leaf surface;
- ▶ Cation sequestration;
- ▶ Standarizes the size of drops;
- ▶ Increases plant absorption of products.

## DIRECTIONS FOR USE

### GENER ALL

#### GUARANTEE ANALYSIS

Urea _____	11.15%
Phosphoric Acid _____	26.32%
Surfactants _____	20.00%
Inert Ingredients _____	42.53%

#### DIRECTIONS FOR USE - SHAKE WELL BEFORE USING

CROPS	WATER RATE (GAL/ACRE)	RATE/ACRE
Row Crops	10 - 15	1/2 oz
	15 - 20	1 oz
Vegetables	25 - 50	1 oz
	50 - 100	2 oz
Pecan and Other Fruit Trees	50 - 100	2 oz
	100 - 200	4 oz

\*Always consult an agronomist or responsible technician.

# ALLER BIW

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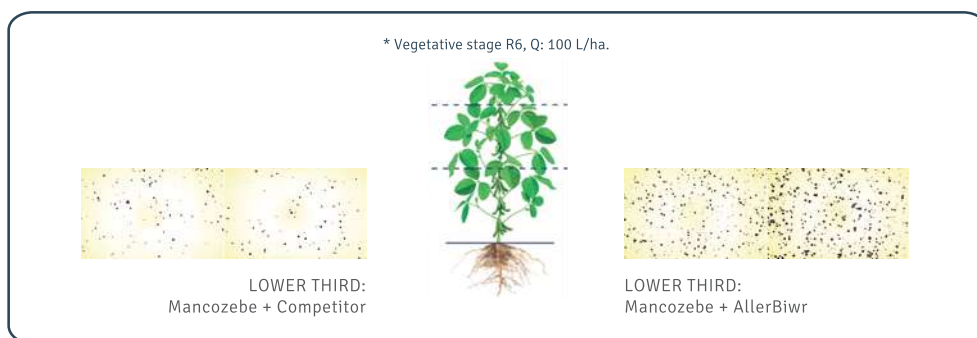
**ALLER BIW is a multifunctional adjuvant.**



ACTS DIRECTLY IN THE REDUCTION OF DRIFT, IN THE SEQUESTRATION OF REACTIVE CATIONS, IN THE SPREADING OF THE DROP AND IN THE INCREASE OF TARGET COVERAGE.

## PRODUCT CHARACTERISTICS

- ▶ **INCREASES TARGET COVERAGE;**
- ▶ **Standardizes the size of the drops generated during application;**
- ▶ **Reduces drift;**
- ▶ **Reduces droplet evaporation and increases product uptake by the plant;**
- ▶ **Increases the spread of droplets on the leaf surface.**
- ▶ **Cation sequestration.**



## DIRECTIONS FOR USE

### ALLER BIW

#### GUARANTEE ANALYSIS

Phosphoric acid \_\_\_\_\_ 24.6%  
Non ionic surfactant \_\_\_\_\_ 71.35%  
Inert Ingredients \_\_\_\_\_ 4.05%

#### DIRECTIONS FOR USE - SHAKE WELL BEFORE USING

CROPS	WATER RATE (GAL/ACRE)	RATE/ACRE
Row Crops	10 - 15	1/2 oz
	15 - 20	1 oz
Vegetables	25 - 50	1 oz
	50 - 100	2 oz
Pecan and Other Fruit Trees	50 - 100	2 oz
	100 - 200	4 oz

\*Always consult an agronomist or responsible technician.



# MAX OIL and FOR OIL

## MAX OIL

ADJUVANT VEGETABLE OIL BASE FOR  
USE IN **FUNGICIDE** AND **INSECTICIDE** MIXTURES.

### PRODUCT CHARACTERISTICS

- ▶ High capacity and quality of emulsion in water;
- ▶ Helps in the absorption of products by the plant.



### DIRECTIONS FOR USE

## MAX OIL

### GUARANTEE ANALYSIS

Crop Oil \_\_\_\_\_ 93.00%  
Inert Ingredients \_\_\_\_\_ 7.00%

### DIRECTIONS FOR USE - SHAKE WELL BEFORE USING

PRODUCTS	CONCENTRATION (%)
Foliar Liquid Fertilizers, Insecticides and Biological Products	0.5%
Fungicides and Herbicides	0.5%

## FOR OIL

ADJUVANT MINERAL OIL BASE RECOMMENDED  
FOR USE IN MIXTURES WITH **HERBICIDES**.

### PRODUCT CHARACTERISTICS

- ▶ High capacity and quality of emulsion in water;
- ▶ Increases the absorption of products by the plant.



### DIRECTIONS FOR USE

## FOR OIL

### GUARANTEE ANALYSIS

Mineral Oil \_\_\_\_\_ 93.00%  
Inert Ingredients \_\_\_\_\_ 7.00%

### DIRECTIONS FOR USE - SHAKE WELL BEFORE USING

PRODUCTS	CONCENTRATION (%)
Foliar Liquid Fertilizers, Insecticides and Biological Products	0.5%
Fungicides and Herbicides	0.5%

\*Always consult an agronomist or responsible technician.

# FORCLEANER

## ADVANCED TECHNOLOGY IN THE DECONTAMINATION OF THE SPRAYING SYSTEM

It is essential to decontaminate the equipment before using GOODSPRAY ONE for the first time.

An efficient pesticide application starts with a decontaminated sprayer!

### PRODUCT CHARACTERISTICS

- ▶ Performs a physical cleaning, removing residues encrusted in the spraying system.
- ▶ The removal of residues of harmful molecules to the crop prevents phytotoxicity problems.
- ▶ Unlike most products on the market, it does not foam during decontamination, facilitating the operation.
- ▶ Because it is not a solvent, it does not harm sprayer components (sealing rubbers, hoses, filters and tips).

### DIRECTIONS FOR USE

## FORCLEANER

#### GUARANTEE ANALYSIS

Isotridecyl Alcohol	6%
Sodium Lauryl Ether Sulfate	10%
Solvent (H <sub>2</sub> O)	84%
Total	100%

#### DIRECTIONS FOR USE - SHAKE WELL BEFORE USING

TYPE OF CLEANING	CONCENTRATION (%)
Light Cleaning	0.4
Heavy Cleaning	0.5

\*For more information about the decontamination procedure, please consult one of our technicians.



## "Phyto" problem in the crop, caused by pesticide residues:



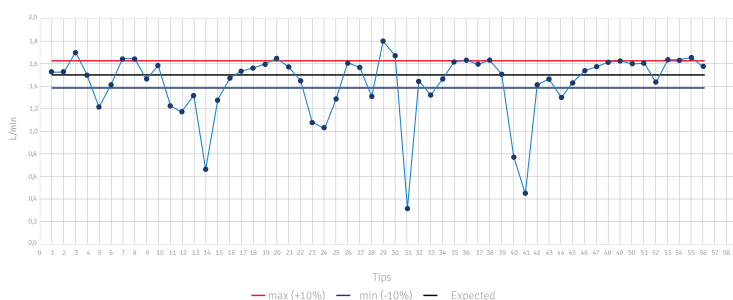
## Spray system clogged by debris:



## Before decontamination



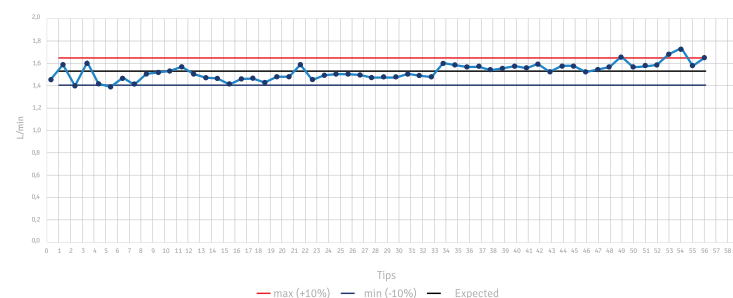
### Flow rate of spray tips



## After decontamination



### Flow rate of spray tips



The graphs above represent the flow distribution along the sprayer boom. Each blue dot on the graph is a spray tip that has had its flow rate collected in liters per minute. It is evident that, after decontamination of the equipment, the flow of the nozzles was much more uniform and better distributed along the sprayer boom, providing a higher quality application!



**WE ARE CONNECTED  
TO BRING YOU  
INNOVATION IN AGRO**

**JOIN US:**



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[forquimica.usa](http://forquimica.usa)

**FORQUIMICA CORP**

300 N. VANDENBERG DR., MOULTRIE, GA, USA, 31788



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