

Operations in 7 Countries.
Customers in Over 50.



Product Catalog

Serving Farmers Globally

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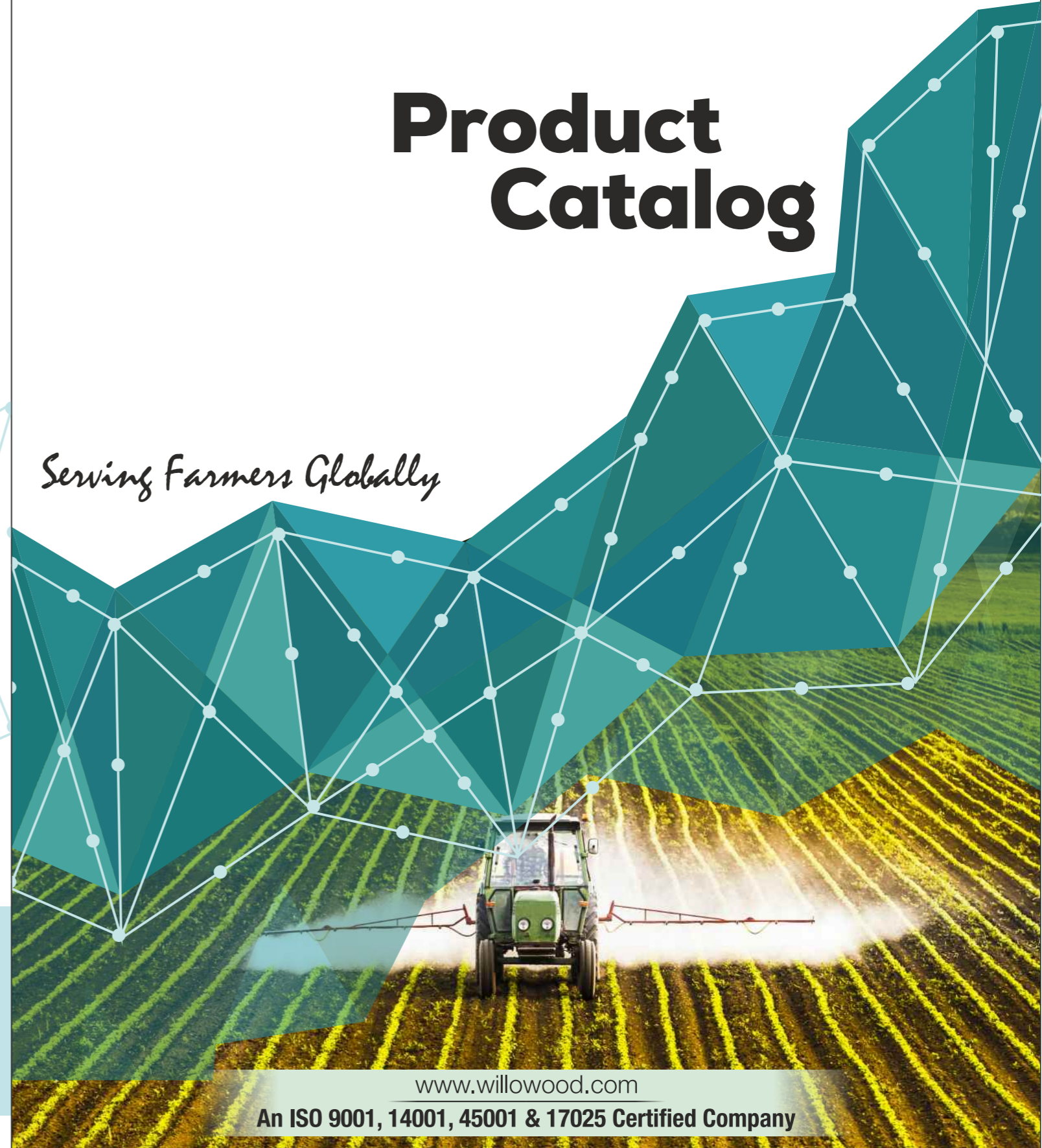
Kolkata Office
The Lounge, 4/F, 23 Chetla Rd,
Kolkata - 700087, West Bengal, India
t+91(33) 30281748 - 50

R&D Centre and Factory
69/P, 73 & 76, Village Manjusar, Ta. Savli,
Dist. Vadodara - 391775, Gujarat, India
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www.willowood.com

www.willowood.com

An ISO 9001, 14001, 45001 & 17025 Certified Company



Committed to providing Quality Crop Protection at an Affordable Cost

About Us

Willowood Chemicals, an affiliate of Willowood Group, is a leading global producer and distributor of crop protection chemicals. With over 30 years of experience and a loyal customer base in over 50 countries, Willowood is one of the most trusted names in crop protection industry.

The group currently operates offices in India, Brazil, Indonesia, UAE, Hong Kong, China and Kenya. Products include insecticides, herbicides, fungicides, bio stimulants, plant growth regulators etc. Willowood places a strategic emphasis on innovative solutions, using in-house R&D capabilities and a committed team of agri culture specialist to fuel a continuous pipeline of new products.

The company has grown from strength to strength earning a spot amongst Top 20 Agrochemical Companies of India, and named as 2nd fastest growing agrochemical company in India by Agropages.



Our Vision

Sustainably feed the world's growing population using research-based integrated solutions to crop protection.



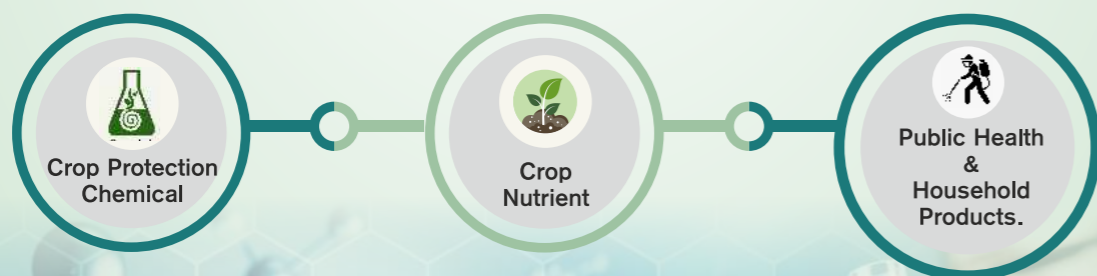
Our Mission

At Willowood we recognize that feeding the world's growing population in a realistic and responsible way in one of today's biggest challenges. We strive every day to expand our knowledge base. And to ensure that the tools needed for safe & effective food productions are delivered to farmers at accessible prices.

One Stop Solutions for Innovative & Unique Combinations

- 28 patents granted & more than 40 patents under pipeline for unique combinations
- Willowood offers complete registration support including Data Generation & Dossier Development

Customized Solutions



At Willowood, We Believe In Providing Integrated Solutions!

Research & Development

Research & Development is the core strength of Willowood group. We have team of Highly Qualified Scientist, Agri Culture Specialist, Process engineer, Chemist and QC & QA team to monitor and analyse every process to ensure consistency of Quality. We have a capability to develop and commercialize new products as per customer requirements.

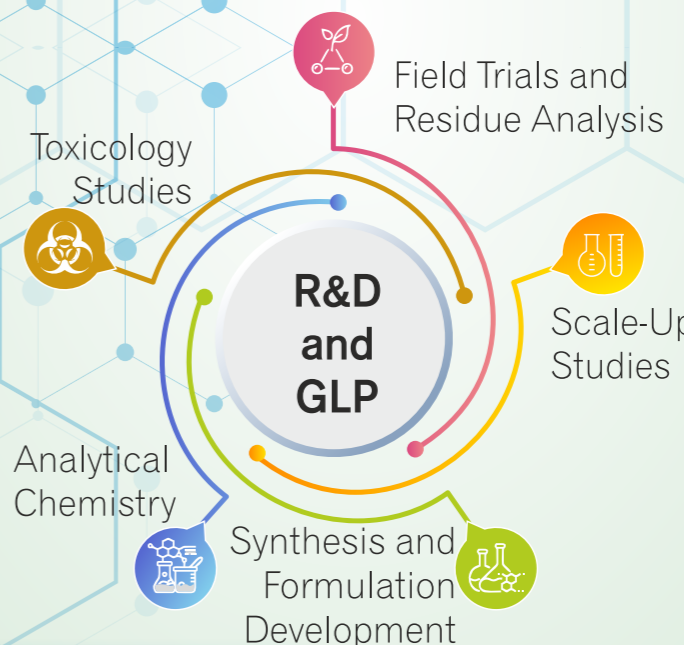
Our capabilities include.

Process Reactions Expertise

Bromination	Chlorination	Cyclization	Diazotization
Esterification	Epoxidation	Friedel – Crafts	Grignard Reactions
N,O – Alkylation	Nitration	Oximation	Peptide
Hydrogenation	Carbon – Carbon Couplings	Sandmeyer	Side Chain Halogenation

CRO

Willowood is having its own GLP CRO at Vadodara. The centre boasts state-of-the-art equipment and infrastructure.



Regulatory Affairs

Acknowledging the growing complexities governing the Crop protection chemical business and the country specific regulatory framework, WILLOWOOD puts to the disposal of its Partners, its considerable Regulatory depth, enabling establishment of sustainable business models.

Our presence in different countries of Africa, Asia, East Europe and North & South America has been enabled by our ability to navigate the country specific regulatory needs, our team of regulatory professionals and comprehensive list of GLP regulatory dossiers has enabled us to hold over 150 registrations in over 50 countries



Technical Manufacturing

Willowood Industries Pvt Ltd

(Technical Manufacturing Plant / Contract Manufacturing Business)

Key Highlights of the plant:

- Fully DCS Operated Zero Liquid Discharge Plant
- Pilot Plant Facility
- In House Research Centre
- Backward Integrations & New Chemistries
- Export Operations are viable due to vicinity to seaport

Location: Address: Plot No. D3/5/3, Phase-3, GIDC Dahej, Ta. Vagra, Dist. Bharuch, Gujarat-392130



Formulations Manufacturing

Willowood Chemicals Ltd

(Formulation Plant / Contract Manufacturing Business)

Willowood owns and operates a fully equipped factory under at Vadodara. The factory is ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 accredited. It houses carefully segregated productions lines in 4 separate buildings for Insecticides, Herbicides and Fungicides etc., so as to avoid cross contamination.

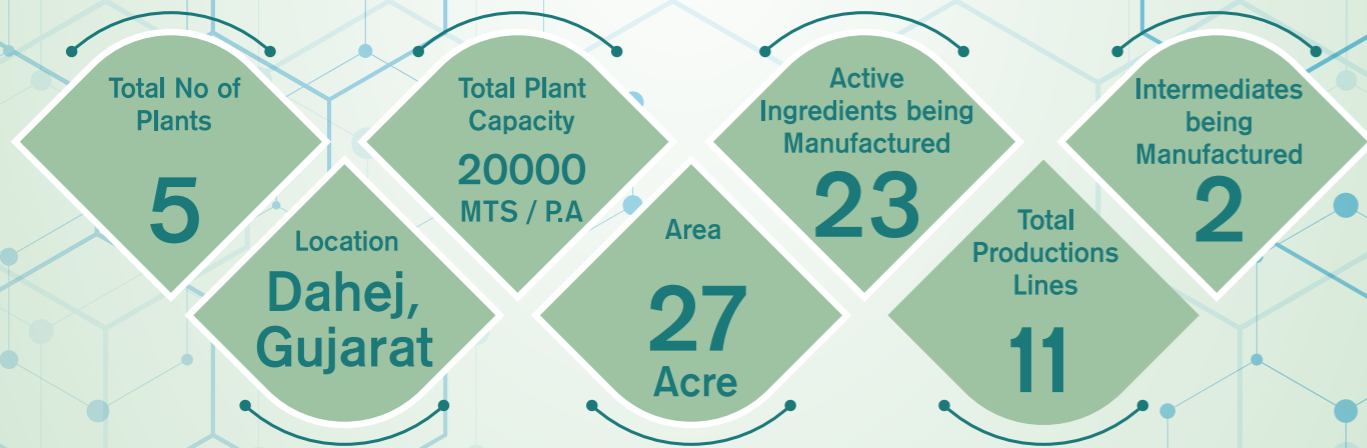
We can produce variety of formulations and pack them in different sizes as per the customer's requirements.

Location: 69/P, 73&76, Village Manjusar, Ta. Savli, Dist. Vadodara- 391175, Gujarat, India



Formulations	Yearly Capacity
EC	40150 KL
SC	10800 KL
SL	9360 KL
WDG / SG / DF	9000 KT
ME	7200 KL
EW	1800 KL
ZC	1800 KL
SE	1800 KL
OD	1500 KL
CS	1800 KL
ZW	1500 KL

Capabilities:



Willowood - Technical Product Range

INSECTICIDES

- Thiamethoxam tech
- Spiromesifen tech
- Flonicamid tech
- Chlorantraniprole tech*
- Pymetrozine tech
- Spirotetramat tech
- Flubendamide tech

FUNGICIDES

- Tebuconazole tech
- Azoxystrobin tech
- Cymoxanil tech
- Difenconazole tech
- Trifloxystrobin tech
- Prothioconazole tech*
- Kresoxim Methyl tech

HERBICIDES

- Sulfentrazone tech
- Mesotrione tech
- Tembotrione tech
- Oxyfluorfen tech
- Fenoxaprop P ethyl tech
- Chloransulam tech
- Diclosulam tech
- Carfentrazone tech
- Pinoxaden tech

*The product would be produced only after expiry of its patent.

Investing in the Future to Stay Ahead of The Curve

In today's fast-evolving business environment, research and growth go hand in hand. At Willowood, we strive to foster a culture of growth through innovation and skill upgradation.

We believe that hiring talented people and investing in advanced infrastructure is key to delivery of superior products and services. We are constantly working to improve our competitiveness through product and process innovation.

In the past decade, Willowood has heavily invested in manufacturing infrastructure, to exercise greater control over the quality of its products. Our team of experienced scientists work closely with our manufacturing division to develop, test and optimize new products and processes.

Quality is the Cornerstone of Every Step of Our Process

Before production, all raw materials are carefully tested. Every batch we produce is then tested meticulously at our ISO 17025-accredited laboratory, to ensure that it adheres to the highest quality standards.

Product List

INSECTICIDES

Spiromesifen	240 SC
Spirotetramat	150 OD
Thiamethoxam	25% WG, 350 gm/Litres FS, 75% WDG
Flonicamid	50% WG
Pyriproxifen	10% EC
Chlorantraniliprole	18.5% SC
Pymetrozine	50% WG
Flubendiamide	480SC (39.35% w/w)
Acetamiprid	20% SP / 20% SL
Alphacypermethrin	5% EC / 10% EC / 10% SC
Bifenthrin	2.5% EC / 10% EC/ 10% WP
Cartap Hydrochloride	4% GR / 50 SP
Chlorpyrifos	48% EC / 40% EC / 20% EC / 10 GR / 75 WDG
Cypermethrin	5% EC/ 10% EC/ 20% EC/ 25% EC
Deltamethrin	2.5% EC, 5% EC 2.5% WP
Emamectin Benzoate	1.6%, 1.9% EC, 5% SG
Methoxyfenozide	24% SC
Fipronil	0,3% GR/ 5% SC/ 20% SC/ 80% WG
Imidacloprid	20% SL, 30.5% SC, 70% WG, WS, 48% FS, 60% FS
Lambda-cyhalothrin	2.5% EC/ 5% EC/ 10% EC/ 5% CS/10% WP
Oxamyl	24% SL
Thiamethoxam	25% WG/70% WG/ 35% FS/ 60% FS/ 75%SP/ 24% SC

Combination

Chlorpyriphos 50% + Cypermethrin 5% EC
Lambdacyhalotrin 10.6 % + Thiamethoxam 14.1 % ZC/SC
Fipronil 40% + Imidacloprid 40% WG
Acetamiprid 1.6% + Cypermethrin 7.2% EC
Acetamiprid 3.2% + Emamectin Benzoate 2.4% EC
Acetamiprid 3.2% + Bifenthrin 1.2% EC
Acetamiprid 1% + Lambda cyhalothrin 1.5% EC
Bifenthrin 3.0% + Acetamiprid 1.6% EC
Acephate 50% + Bifenthrin 10% WDG
Pyriproxifen 10% + Bifenthrin 10% EC
Imidacloprid 1.5% + Bifenthrin 1% EC

FUNGICIDES

Tebuconazole	45 DF, 25% EC, 2% DS, 60 FS
Difenoconazole	25% EC
Hexaconazole	5% EC & 5% SC
Prothioconazole	48% SC, 42% SC & 25% EC
Cymoxanil	60% Wdg
Kresoxim methyl	50% Wdg
Azoxystrobin	25% SC, 23.5% SC,
Trifloxystrobin	50% WDG, 75% WDG
Thifluzamide	24% SC
Captan	50% WP / 80% WG
Carbendazim	50% SC, 50% WP
Cymoxanil	60% WG
Mancozeb	75% WP/ 80% WP/ 75% WG / 35% SC
Propineb	70% WP
Propiconazole	25% EC/ 41.8% EC/ 50% EC/ 14.3% EW
Sulphur	80% WDG

Combination

Azoxystrobin 11% + Tebuconazole 18.3% SC
Azoxystrobin 18.2% + Difenoconazole 11.4% SC
Azoxystrobin 20% + Difenoconazole 15% SC
Azoxystrobin 8% + Chlorothalonil 40% SC
Propiconazole 25% + Difenoconazole 25% EC
Propiconazole 13.9% + Difenoconazole 13.9% EC
Mancozeb 64% + Cymoxanil 8% WP
Mancozeb 63% + Carbendazim 12% WP

Product List

HERBICIDES

Carfentrazone ethyl	40% DF, 24% EC, 6% EW
Chloransulam methyl	84% WDG
Sulfentrazone	48% SC, 75% WDG
Pinoxaden	5.1% EC
Fenoxaprop-p-ethyl	6.9% EW, 7.5% EW, 9.3% EC
Metribuzin	75% WG, 48% SC, 60% SC
Halosulfuron methyl	75% WDG
Fluazifop-p-butyl	13.4 %EC
Oxyfluorfen	24% EC, 41% SC
Tembotrione	34.4% SC
Clethodim	12% EC / 24% EC / 36% EC
Clodinafop-propargyl	8% EC / 15% WP
Clomazone	48% EC
Glufosinate-ammonium	15% SL / 28% SL
Glyphosate	41% SL/ 48% SL/ 71% SG
Haloxypop R methyl	10.5% EC
Metsulfuron methyl	20% WP, 20 WG
Metribuzin	70% WP, WDG / 75% WP, WDG / 48% SC / 60% FS
Pendimethalin	38.7% CS
Pretilachlor	50% EC / 37% EW
Pyrazosulfuron ethyl	10% WP
Propanil	48% SC / 80% WG

Combination

Sulfentrazone 18% + Metribuzin 27% DF
Metsulfuron methyl 10% + Chlorimuron ethyl 10% WP
Pendimethalin 30% + Imazethapyr 2% EC
Sulfentrazone 62.1% + Chloransulam-methyl 7.9% WDG
Sulfentrazone + Imazethapyr
Sulfentrazone + S-Metolachlor

Proprietary Products

INSECTICIDE

Imidacloprid + Lambda Cyhalothrin
Fenobucarb + Buprofezin + Acephate
Bifenthrin + Thiamethoxam
Emamectin Benzoate + Diafenthiuron
Cartap Hydrochloride + Fipronil

FUNGICIDE

Hexaconazole + Validamycin
Difenoconazole + Mancozeb
Propiconazole + Thiophanate Methyl
Azoxystrobin + Boscalid
Difenoconazole + Validamycin
Thifluzamide + Difenoconazole + Validamycin

HERBICIDE

Carfentrazone-Ethyl + Clodinafop-Propargyl
Oxyfluorfen + Clodinafop Propargyl
Clodinafop Propargyl WG

SEED TREATMENT

Carboxin + Thiram + Imidacloprid
Imidacloprid + Tebuconazole