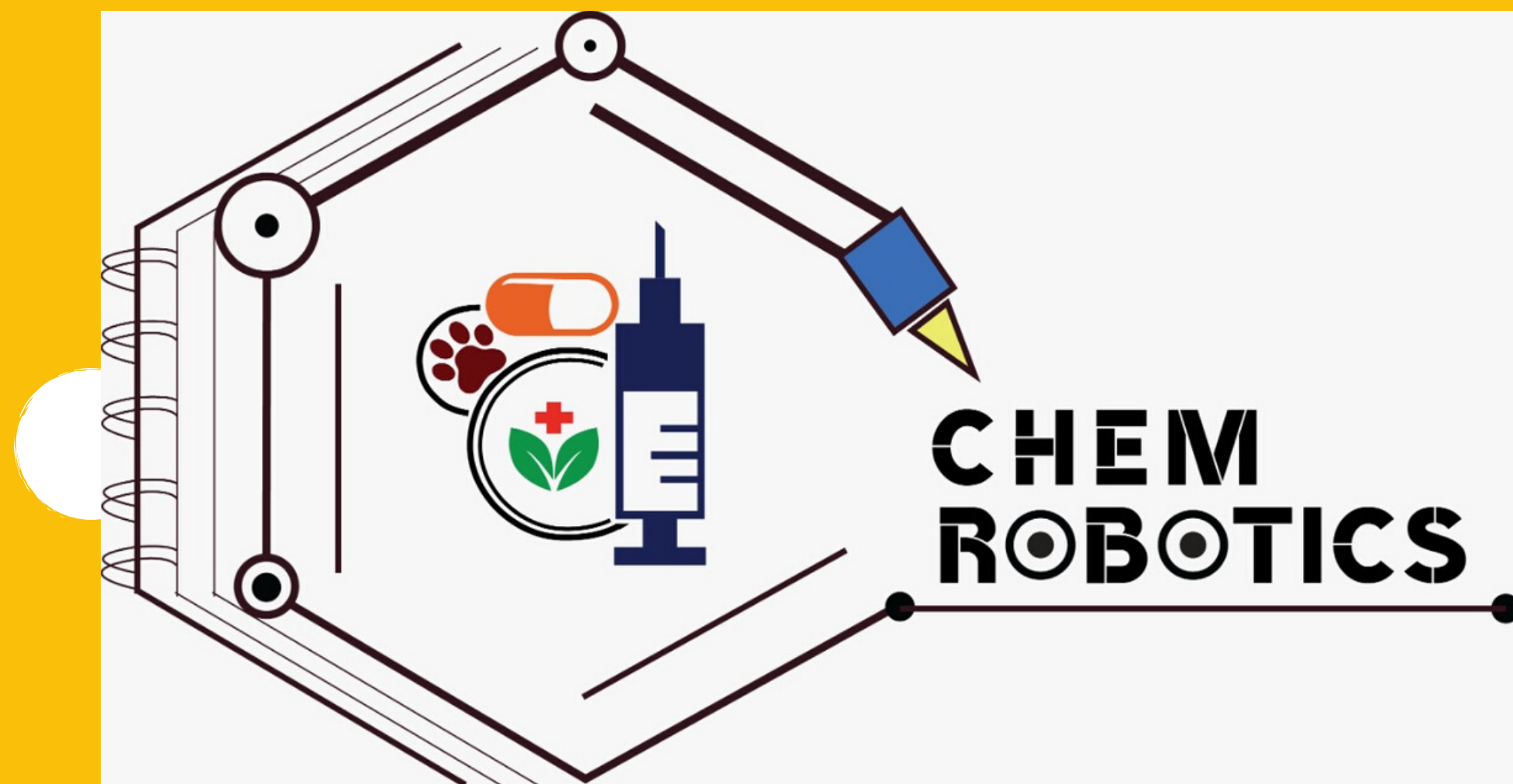


# CHEMROBOTICS USER MANUAL



GLOBAL AGROCHEMICAL INTELLIGENCE  
AGROCHEMICAL DATABASE



# ChemRobotics Home Page - Open Access

The screenshot displays the ChemRobotics website home page. The header features the ChemRobotics logo and a navigation menu with links: Home, AgroPat, Indian Pesticide DB, Brazil DB, Global Agro Products Directory, MRL DB, Jarvis DB, Chemrobotics Times, Services, and Contact Us. A secondary menu includes links for sales@chemRobotics.com, +91-6266117944, Sample Reports & Data, Brochure, User Manual, Download App, Sign Up, and Login. The main banner area has a large green and blue 'AgroPat Open Access™' logo. Below the logo, a text box states: 'PROVIDING SOLUTIONS IN CROP PROTECTION FIELD INCLUDING PESTICIDE, BIO-PESTICIDE, FERTILIZERS & GROWTH STIMULANTS.' The search interface includes a 'Simple Text Search' section with a dropdown for 'Active Ingredient' and a text input field containing 'rynaxypyr'. Below this is a 'Dynamic Search Filter' section with two dropdowns: 'Select Launching Status' (with options: Advanced Candidate, Banned, Launched, Withdrawn) and 'Select Launching Year' (with a list of years from 2022 down to 2011). A red and yellow banner at the bottom reads: 'Start your Active Ingredient (AI) search for free now!!!'. A WhatsApp icon is visible in the bottom left corner. A chat window in the bottom right corner contains a welcome message and a 'Write a reply...' input field.

Web access Link: <https://www.chemrobotics.com/>



# AgroPat -Lite - Home Page (Search Functionality )

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PROVIDING SOLUTIONS IN C

SELECT TEXT SEARCH FIELD

SELECT LAUNCHING STATUS

SELECT LAUNCHING YEAR

SELECT YEAR WISE OFF PATENT MOLECULE

1897 1905 1926 1943 1945 1946 1948 1949 1950 1951 1952 1953 1954 1957 1958 1959 1960 1962 1963

2024 2023 2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006

mm/dd/yyyy

mm/dd/yyyy

SEARCH

SELECT PROPERTY / GENERIC

GENERIC PROPRIETARY

Growth Regulator

Pharma

Web access Link: <https://www.chemrobotics.com/agropat-lighter/login>

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# GENERIC CONSTRAINING DATE(GCD) - Functionality

Chemical  
Crop Protection  
Veterinary  
Ayurvedic  
Homeopathic  
Allopathic  
Seeds  
Fungicides



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## AgroPat Lite™

PROVIDING SOLUTIONS IN CROP PROTECTION FIELD INCLUDING PESTICIDE, BIO-PESTICIDE, FERTILIZERS & GROWTH STIMULANTS.

Simple Text Search

Select Text Search Field

Search Data

Dynamic Search Filter

Select Launching Status	Select Year Wise off Patent Molecule	Select Launching Year
GENERIC CONSTRAINING DATE(GCD)	01/01/2020	01/01/2025
Select Year of Discovery	Select Property / Generic	SEARCH

Growth Regulator

Pharma

We Are Here

Pharma

Web access Link: <https://www.chemrobotics.com/agropat-lighter/login>



# AgroPat -Lite - Product Search Page

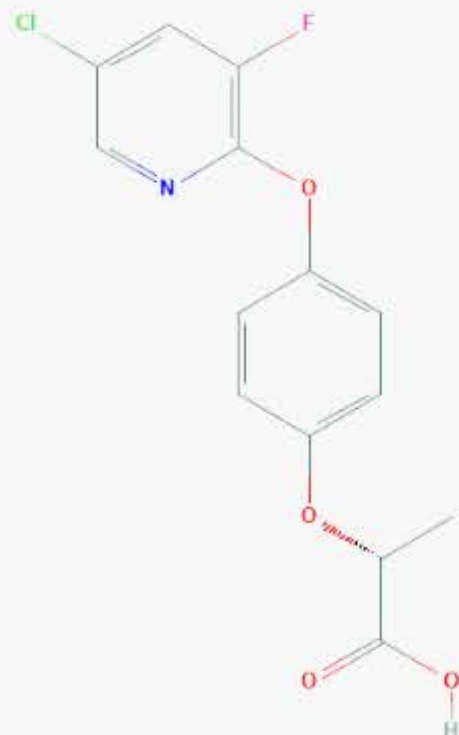
Active Ingredient Clodinafop

Dynamic Search Filter

Select Launching Status	Select Year Wise off Patent Molecule	Select Launching Year
GENERIC CONSTRAINING DATE(GCD)	mm/dd/yyyy	mm/dd/yyyy
Select Year of Discovery	Select Property/ Generic	SEARCH

Total Results : 2

## CLODINAFOF



GBRN Number  
1187  
Product Type  
Active Ingredient  
INNOVATOR(S)  
CIBA-GEIGY AG (NOW SYNGENTA AG) AND FIRST MARKETED IN 1990

syngenta

GENERIC CONSTRAINING DATE(GCD)  
2018-12-31  
GENERIC / PROPRIETARY / DEVELOPING CANDIDATE / WITHDRAWN  
GENERIC

TRADE NAMES / PROPRIETARY NAME:  
Clodinafop:

Name of Generic Chemistry:  
Herbicides [Aryloxyphenoxypionic Herbicides] [1]  
IUPAC:  
(2R)-2-[4-[5-chloro-3-fluoropyridin-2-yl]oxyphenoxy]propanoic acid  
Resistance Action Committee (RAC) / Classes:  
Mechanism of Action (MOA):  
Systemic, Contact Acting. Inhibits Fatty Acid Synthesis. Inhibition Of Acetyl CoA Carboxylase (AcCase)

Year Of Discovery:  
1989  
Launching Year:  
1991  
Year Wise off patent molecule:  
2018  
CAS RN:  
114420-56-3  
CHEMICAL CLASS:  
Herbicides [Aryloxyphenoxypionic Herbicides] [1]  
Indication:  
HERBICIDE  
ISO STATUS:  
PUBCHEM CID:  
5483847

MORE INFO



# AgroPat Ultimate- Home Page

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**Web access Link: <https://www.chemrobotics.com/agropat/##/>**

**AgroPat Ultimate™**  
Providing solutions in crop protection field including Pesticide, Bio-pesticide, Fertilizers & Growth Stimulants.

**Click here and select "AgroPat" from category section**

Select Category  
Select Category  
AgroPat  
PharmVetPat

Active Ingredient Search Data QSearch

GENERIC CONSTRAINING DATE(GCD) YYYY-MM-DD To YYYY-MM-DD QSearch

Advance Search

f t in

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04:44 PM 04-03-2020



# AgroPat Ultimate- Search Menu

ChemRobotics

chemrobotics.com/##/

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**AgroPat Ultimate™**

Providing solutions in crop protection field including Pesticide, Bio-pesticide, Fertilizers & Growth Stimulants.

**Click here and select any field as per your requirements for ex: Active Ingredient, Company, Innovator, Trade Name, Chemical class, Crop, Launching Status etc etc.**

Select Category Select Search Data Search

Select Category Select

- Select
- 2 / 3 / 4 / 5 Way Mixtures
- Active Ingredient
- Anatomical Therapeutic Chemical (ATC) Classification Code
- Application
- Biopesticide
- Canonical Smiles
- CAS RN
- Chemical Class
- Combining Partner / Mixtures
- Commentary
- Competitor(S)
- Crop
- Data Protection (Combination Products)
- Data Protection (Solo Product)
- Description
- EC. NO.
- First Disclosure / Product Patent / Exclusivity
- Formulations / Preparations
- Google Patent Hyperlink of Patent (INVENT INFO)

D To YYYY-MM-DD Search

Advance Search

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# AgroPat Ultimate- Search Demo



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## AgroPat Ultimate™

Providing solutions in crop protection field including Pesticide, Bio-pesticide, Fertilizers & Growth Stimulants.

Type here relevant text, e.g. AI Names, Company name, Crop name etc.

AgroPat

Active Ingredient

chlorantraniliprole

Search

Start your **ACTIVE INGREDIENT (AI) SEARCH** for **FREE** now!!!



Web access Link: <https://www.chemrobotics.com/agropat/#/>

About Us



ChemRobotics (AgroPat® / PharmVetPar®) provides information on new or existing active ingredient of Agro-Pharma and other allied sectors including Ayurvedic and Homeopathic area. It also comprises product



# AgroPat Ultimate- (GCD Functionality)



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Web access Link: <https://www.chemrobotics.com/agropat/#/>

## AgroPat Ultimate™

Providing solutions in crop protection field including Pesticide, Bio-pesticide, Fertilizers & Growth Stimulants.

Select Category

Select

Search Data

Search

Select Category

GENERIC CONSTRAINING DATE(GCD)

YYYY-MM-DD

To

YYYY-MM-DD

Search

Advance Search

Type dates in same format (shown in fields) to get expired AIs (list of off patent molecules) between a specific dates

## About Us

ChemRobotics (AgroPat® / PharmVetPat®) provides information on new or existing active ingredient of Agro, Pharma and other allied sectors including Ayurvedic and Homeopathic area. It also comprises product information including formulation, combination, developer, innovator, existing intellectual property, regulatory requirement, biology data including spectrum, Mechanism of Action (MoA), direction of Use (DFU), toxicity profile and safety, which play major role in decision or strategy making for research at academic, industry, individual level. Provides more than 350 technical data fields from Chemistry, Biology, Formulation, Pharmacology, Regulatory, IP Scenario and in the last not least Safety and Hazards.





# AgroPat Ultimate- (Advanced Search Page)



Advanced search enables user to limit the search results like "Innovator" can be limit to "Indication"

## AgroPat

	Innovator	▼	BASF
AND ▼	Indication	▼	FUNGICIDE
OR ▼	Chemical Class	▼	carboxamide
▼	Mechnaism of Action	▼	SDHI
AND OR NOT			

\*User can select operator "AND" "OR" "NOT" as per search requirement

Search Reset

Web access Link: <https://www.chemrobotics.com/agropat/#/search>





# AgroPat Ultimate- (Detail Page with Report Export Functionality)



# AgroPat Ultimate™

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- JARVIS PATENT LANDSCAPE
- Supplementary Protection Certificate (SPC)
- Data Protection
- KEY STARTING MATERIAL (KSM)
- Biology

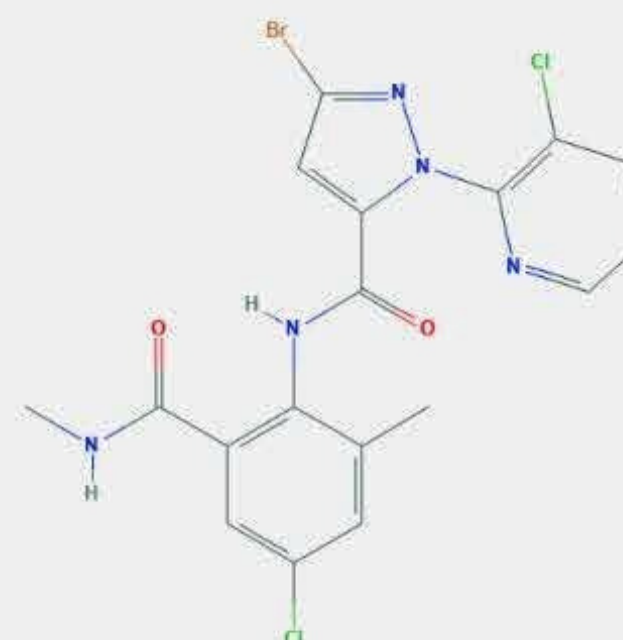
Navigation bar to navigate fields

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**CHLORANTRANILIPROLE / RYNAXYPYR**



## ● PRODUCT HIGHLIGHTS

INNOVATOR/TRADE NAME	GENERIC / PROPRIETARY / DEVELOPING CANDIDATE / WITHDRAWN	HONEYBEE TOX	INDICATION / MOA
E.I. DUPONT DE NEMOURS AND COMPANY	PROPRIETARY	Toxic	Insecticides / Ryanodine receptor modulators

GREEN BOOK REGISTRATION NUMBER(GB RN) : 925

**ACTIVE INGREDIENT:** CHLORANTRANILIPROLE / RYNAXYPYR

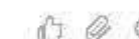
**IUPAC:** 5-bromo-N-[4-chloro-2-methyl-6-(methyl carbamoyl)phenyl]-2-(3-chloropyridin-2-yl)pyrazole-3-carboxamide



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# AgroPat Ultimate- (Reports - Data Availability)

DATA AVAILABILITY

AgroPat Ultimate™

FACT SHEET	FAO	MONOGRAPH	CERTIFICATE	SDS	EP REVIEW REPORT	POLYMORPHISM CHAPTER	INDIAN PROD. PAT. 1	INDIAN PROD. PAT. 2	INDIAN PROD. PAT. 3	INDIAN PROD. PAT. 4	INDIAN PROD. PAT. 5	ROUTE OF SYNTHESIS
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

DESCRIPTION

The European patent, EP1265850, expires 20/03/2021. SPCs to the a.i. exist in a number of countries extending protection to 2022.

Mixture products with abamectin, clothianidin + furametpyr + isotianil, dinotefuran, imidacloprid, isotianil, lambda-cyhalothrin and thiamethoxam have been developed, most of these a.i.s. are relatively old and no longer have patent protection. However, some mixture products have been granted patent protection extending protection to 2025/6 and a detailed analysis on patents to mixture products should be undertaken before entering these markets.

In the EU the registration dossier was declared complete in 2007 but inclusion on Annex I, only occurred on 1st May 2014 thus giving 10 years data protection from this date. Potential generic entrants need to establish the details of data protection in all markets for chlorantraniliprole.

Shrink All



# AgroPat Ultimate - (Route of Synthesis)

CONTENTS

- Data Protection
- KEY STARTING MATERIAL (KSM)
- Biology
- Regulatory Data
- RAC/Classes
- Combination
- INDIAN PESTICIDE DATABASE (IPD)
- Active Ingredient(AI) Process Detail(s)
- ANALYTICAL DATA
- CIPAC
- Toxicity Data

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● INDIAN PESTICIDE DATABASE (IPD)


● ACTIVE INGREDIENT (AI) PROCESS DETAIL(S)

→ AI PROCESS View More

GREEN BOOK REGISTRATION NUMBER (GB RN)	PRODUCT	TECHNICAL FIELD (S)	PATENT / NON-PATENT REFERENCE (S)	UNIFORM RESOURCE LOCATOR (URL)	DIGITAL OBJECT IDENTIFIER (DOI)	DESCRIPTION
925	CHLORANTRANILIPROLE / RYNAXYPYR	CHLORANTRANILIPROLE TECHNOLOGY INVOLVED: OXIDATION REDUCTION REDUCTION-CATALYTIC RING CHLORINATION ACID CHLORIDE FORMATION AMIDATION CONDENSATION CYCLISATION BROMINATION HYDROLYSIS				....

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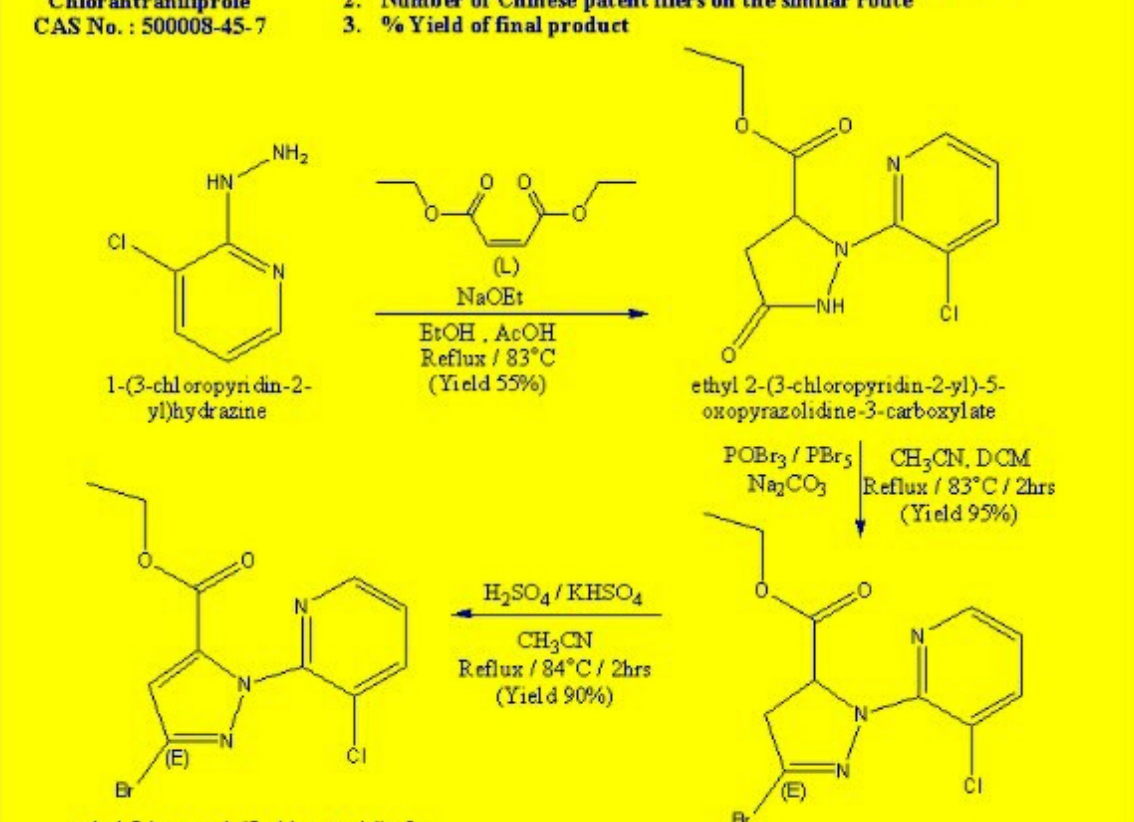
Route of Synthesis (ROS) :

**Chlorantraniliprole**  
CAS No. : 500008-45-7

**Commercial Route of Synthesis - Chlorantraniliprole**




Commercial Route of Synthesis is selected based on following factors

1. Number of available suppliers of key starting material (KSM)
2. Number of Chinese patent filers on the similar route
3. % Yield of final product



As Shown: User can directly reach out to "Active Ingredient (AI) Process Details" by using navigation bar

[https://www.chemrobotics.com/agropat/#/product\\_details](https://www.chemrobotics.com/agropat/#/product_details)





# AgroPat Ultimate - (Route of Synthesis)

**Mutiple (More than Routes) Route of Synthesis - (Commercial & Disclosed routes in Patent & Non-Patent References):**

**Selection of Commercial Route of Synthesis is based on following factors:**

1. Number of available suppliers of key starting material (KSM)
2. Number of Chinese or Other Generic players disclosed routes in their Patents
3. % Yield of final product

The image displays two screenshots of the ChemRobotics AgroPat Ultimate web application. The left screenshot shows the 'ACTIVE INGREDIENT (AI) PROCESS DETAIL(S)' page for Chlorantraniliprole / RYNAXYPYR, highlighting the 'AI PROCESS' section and the 'Route of Synthesis (ROS)' section. The right screenshot shows the 'TECHNICAL FIELD (S)' section, which lists the technologies involved in the synthesis process. A red arrow points from the text 'Technology Involved' to the 'TECHNICAL FIELD (S)' section.

**Contents:**

- Data Protection
- KEY STARTING MATERIAL (KSM)
- Biology
- Regulatory Data
- RAC/Classes
- Combination
- INDIAN PESTICIDE DATABASE (IPD)
- Active Ingredient(AI) Process Detail(s)
- ANALYTICAL DATA
- OPAC
- Toxicity Data

**INDIAN PESTICIDE DATABASE (IPD)**

**ACTIVE INGREDIENT (AI) PROCESS DETAIL(S)**

**AI PROCESS**

GREEN BOOK REGISTRATION NUMBER (GB RN)	PRODUCT	TECHNICAL FIELD (S)	PATENT / NON-PATENT REFERENCE (S)	UNIFORM RESOURCE LOCATOR (URL)	DIGITAL OBJECT IDENTIFIER (DOI)	DESCRIPTION
925	CHLORANTRANILIPROLE / RYNAXYPYR	CHLORANTRANILIPROLE TECHNOLOGY INVOLVED: OXIDATION REDUCTION REDUCTION-CATALYTIC RING CHLORINATION ACID-CHLORIDE FORMATION AMIDATION CONDENSATION CYCLISATION BROMINATION HYDROLYSIS				

**Route of Synthesis (ROS):**

**Commercial Route of Synthesis - Chlorantraniliprole**

Chlorantraniliprole CAS No.: 500008-45-7

Commercial Route of Synthesis is selected based on following factors:

1. Number of available suppliers of key starting material (KSM)
2. Number of Chinese patent files on the similar route
3. % Yield of final product

The chemical reaction scheme shows the synthesis of Chlorantraniliprole from 1-(3-chloro-4-oxo-2-ylidene-5-oxo-2-ylidene-3-carboxylate) and ethyl 2-(3-chloro-4-oxo-2-ylidene-5-oxo-2-ylidene-3-carboxylate) via several steps, including reduction, cyclization, and hydrolysis.

**TECHNICAL FIELD (S):**

CHLORANTRANILIPROLE TECHNOLOGY INVOLVED:

- OXIDATION
- REDUCTION
- REDUCTION-CATALYTIC
- RING CHLORINATION
- ACID-CHLORIDE FORMATION
- AMIDATION
- CONDENSATION
- CYCLISATION
- BROMINATION
- HYDROLYSIS

**ROS-1:**

**Commercial Route of Synthesis - Chlorantraniliprole**

Chlorantraniliprole CAS No.: 500008-45-7

Commercial Route of Synthesis is selected based on following factors:

1. Number of available suppliers of key starting material (KSM)
2. Number of Chinese patent files on the similar route
3. % Yield of final product

The chemical reaction scheme shows the synthesis of Chlorantraniliprole from 1-(3-chloro-4-oxo-2-ylidene-5-oxo-2-ylidene-3-carboxylate) and ethyl 2-(3-chloro-4-oxo-2-ylidene-5-oxo-2-ylidene-3-carboxylate) via several steps, including reduction, cyclization, and hydrolysis.

**TECHNICAL FIELD (S):** Disclosed technology involved in the process such as OXIDATION, REDUCTION, REDUCTION-CATALYTIC, RING CHLORINATION, ACID CHLORIDE FORMATION, AMIDATION, CONDENSATION, CYCLISATION, BROMINATION, HYDROLYSIS etc.



# AgroPat Ultimate - (Jarvis Patent Landscape)

## CONTENTS

- Product Highlights
- Description
- Product Identification
- Invent Info
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- Physi Chem (Experimental Properties)
- JARVIS PATENT LANDSCAPE
- Supplementary Protection Certificate (SPC)
- Data Protection
- KEY STARTING MATERIAL (KSM)
- Biology

AgroPat Ultimate™

### ● PHYSICO-CHEMICAL(EXPERIMENTAL PROPERTIES)

In water, DT50 10 d (pH 9, 25°C). pKa 10.88±0.71

#### → DISSOCIATION CONSTANTS(pKa)

pKa 10.88±0.71

#### → HENRY'S LAW CONSTANT AT 25 (°C) (Pa m<sup>3</sup> mol<sup>-1</sup>)

Henry 3.2 x 10<sup>-9</sup> Pa m<sup>3</sup> mol<sup>-1</sup> (20°C, calc.)

#### → MAXIMUM UV-VIS ABSORPTION I/mol

Acidic solution: no absorption max >200nm, 290nm = 3941; [Neutral solution: no absorption max >200nm, 290nm = 4185; [Basic solution: absorption max at ~320nm, 290nm = 6082

### ● JARVIS PATENT LANDSCAPE

Patent Landscape

PATENT PUBLICATION NUMBER	ASSIGNEE	TITLE	PATENT TYPE
WO200170671	FMC CORPORATION	(EP1700845) Insecticidal anthranilamides	MOU
WO03015519	FMC CORPORATION	(EP1416797) Arthropodocidal anthranilamides	AI
AR094456	BASF	Mezclas plaguicidas	
AR094635	BASF	Mezclas plaguicidas	
AR094828	BASF	Mezclas plaguicidas	

View Database >>

Click here - To view Patent Landscape Table

SUMMARY PATENT LANDSCAPE

Process Patents:

1. WO2018214686 Preparation method and application of oxazinone compounds.
2. WO2018214685 Preparation method of N-acyl Anthranilamide.
3. CN108191822 Preparation of chlorantraniliprole.
4. WO2017114121 Method for preparing pyridylpyrazolidone carboxylic acid compound.
5. CN106928183 Preparation method of pyridyl pyrazolidone carboxylic acid compounds.
6. CN107089970 Preparation method of N-acyl Anthranilamide.
7. CN107033135 Preparation method and application of oxazinone compounds.
8. WO2012103436 Process for the preparation 2-aminobenzamide derivatives.

#### GOOGLE PATENT HYPERLINK OF PATENT (PATENT LANDSCAPE)

WO2018214686  
WO2018214685  
CN108191822  
WO2017114121  
CN106928183  
CN107089970  
CN107033135  
WO2012103436  
CN101717395  
WO2006062978

→ PATENT LANDSCAPE

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# AgroPat Ultimate - (Jarvis Patent Landscape Detail Page)



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Searching for:

Total Results : 2737

Page: 1

Patent Type Option: User can limit the patent references as per field and invention of interest such as process, formulation or composition, polymorph, demo is given here for process patent.

ID	GBRN NO	PRODUCT	PATENT PUBLICATION NUMBER	PARENT PATENT PUBLICATION NUMBER	PATENT KIND CODES	ASSIGNEE	PATENT FAMILY	IMAGES	PRODUCT	TITLE	ABSTRACT	INVENTORS	DESCRIPTION	CLAIMS	PN, PN	PRIORITY NUMBERS	EARLIEST PUBLICATION DATE(EPO)	PUBLICATION DATE	APPLICATION NUMBER
1179	1179	00247- Mancopper00405- Mancozeb;	NL277376		A4A1AABA ACBBABBA ADo	ROHM & HAAS	NL277376 A0 [NL- 277376D] BE617407 A 0 [BE-617407] ES275497 A1 1962- 09-16 [ES-275497] FR1326689 A 1963- 05-10 [FR1326689] GB996264 A 1965-06- 23 [GB-996264] AT243276 B 1965-11- 10 [AT-243276] CA75 A		00247- Mancopper00405- Mancozeb;	(US3379610) Complex metal salts of manganese ethylenebisdithiocarbamate	(US3379610) The invention comprises metal complexed manganese alkylene bisdithiocarbamates in which the complexing metal is one or more of cobalt, copper, iron and zinc. The amount of complexing metal is preferably at least 0.1 parts by weight and not more than 13, 4, 50 and 10 parts by weight	BRUCE LYON CHANNING NEMEC JOSEPH W UNGER VICTOR H	<input type="button" value="view description"/>	<input type="button" value="view claims"/>	NL277376 BE617407 ES275497 FR1326689 GB996264 AT243276 CA75 CH419715 DK105303 DE1234704 AT257267 US3379610	1961US- 04108735	1961-05-09	00 1962- 09-16 1963-05- 10 1965- 06-23 1965-11- 10 1966- 01-15 1966-08- 31 1966- 09-12	US04/108,735 GB4531961 FP89672 DEP0032644 CH553262 BE617407D NL277376D ES275497 AT632663 CA50095 DK182262 AT237062 CY45268 FI69162 FI18567 MY6900065
1216	1216	00404- Maneb00405- Mancozeb;	ES251662		A1AABA4A	ROHM & HAAS	ES251662 A1 1960- 04-16 [ES-251662] FR1234005 A 1960- 10-14 [FR1234005] US2974156 A 1961- 03-07 [US2974156] DE1113607 B 1961- 09-07 [DE1113607] GB929210 A 1963-06- 19 [GB-929210] CH387014 A 1965-01- 15 [CH-387014]		00404- Maneb00405- Mancozeb;	(US2974156) Method for stabilization of manganese salts of alkylene bisdithiocarbamic acids and the products thereof	(US2974156) The invention comprises a manganese alkylene bis-dithiocarbamate, preferably manganese ethylene bis-dithiocarbamate, stabilized by having intimately admixed therewith hexamethylene tetramine in an amount sufficient to retard decomposition of the manganese salt on ageing. The	SOBATZKI RAYMOND J	<input type="button" value="view description"/>	<input type="button" value="view claims"/>	ES251662 FR1234005 US2974156 DE1113607 GB929210 CH387014 CA105	1958US- 03757939	1958-08-29	1960-04-16 1960-10-14 1961-03-07 1961-09-07 1963-06-19 1965-01-31 1966-01-15	US03/757,939 GB2819559 FP8038 DEP0026117 CH7750359 ES251662 CA50121
1823	1823	02842-Valifenalate;	ITM1982583	(DE69914450) EP99203955 (ATE258557) EP99203955 (DK1028125T) EP99203955	A1A4A1A A1B1AB1A1 B1B2B1TD1 ET3T1T3T2 B2A2B1I2	ISAGRO RICERCA BELCHIM CROP PROTECTION LUXEMBOURG	ITM1982583 A1 2000- 05-30 [IT98MI2583] AU6062899 A 2000- 06-01 [AU9960628] JP2000198797 A 2000-07-18		02842-Valifenalate;	(EP1028125) Dipeptide compounds having fungicidal activity and their agronomic use	(EP1028125) The invention relates to dipeptide compounds having formula (I): <CHEM> The compounds having formula (I) have a high antifungal activity and are used for the control of	FILIPPINI LUCIO GUSMEROLI MARILENA MORMILE SILVIA COLOMBO	<input type="button" value="view description"/>	<input type="button" value="view claims"/>	ITM1982583 AU6062899 JP2000198797 EP1028125 BR9905751 BRPI9905751	1998IT- MI02583 1999EP- 0203955	1998-11-30 1999-11-24	2000-05- 30 2000- 06-01 2000-07- 18 2000- 08-16	EP99203955 EP99203955 US09/450,950 DE69914450T DE69914450T JP34095499





# AgroPat Ultimate - (Launch information in World Map View)

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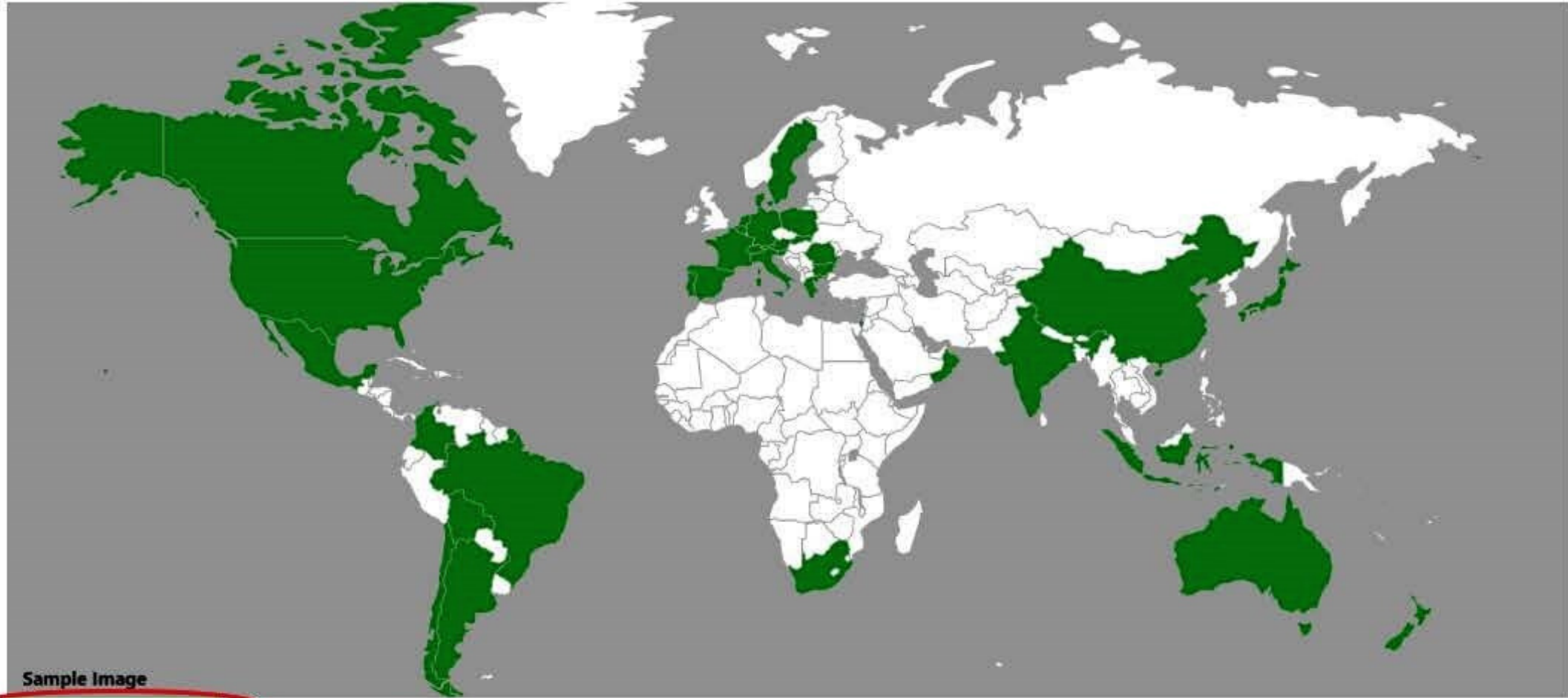
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- Supplementary Protection Certificate (SPC)
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- KEY STARTING MATERIAL (KSM)
- Biology

### AgroPat Ultimate™

#### ● MAXIMUM RESIDUE LIMIT (CODEX ALIMENTARIUS)

#### ● REGULATORY DATA

##### → APPROVAL STATUS



Sample Image

[View Country Map >>](#)

Click here - To view world map of Approvals

##### SUMMARY

Chlorantraniliprole:  
First approved in 2007, by 2014, chlorantraniliprole was registered for use in many countries, including : algeria, argentina, australia, austria, bangladesh, belgium, brazil, bulgaria, canada, chile, china, colombia, cyprus, czech republic, france, germany, greece, hungary, india, indonesia, ireland, israel, italy, japan, luxembourg, malta, mexico, morocco, netherlands, new zealand, philippines, poland, portugal, romania, serbia, slovakia, slovenia, turkey, uk, us and vietnam. Full registration was in progress for uk.

##### → Maximum Residue Limit as per the Food Safety and Standards Authority of India (FSSAI India)

GBRN	ACTIVE INGREDIENTS	COUNTRY	CROP/ COMMODITY	MAXIMUM RESIDUE LEVELS (OR)	RAW AGRICULTURAL COMMODITY/PROCESSED FOOD PRODUCTS MRL	PUBLISHED CROP/ COMMODITY	MAXIMUM RESIDUE LEVELS	IMPORTED PRODUCTS MARKET	US CFR PRESCRIBED USE	GLOBAL CROP DICTIONARY	REGULATORY INFORMATION	RESIDUE DEFINITION	PUBLISHED CROP/ COMMODITY CODE	DATE OF ENTRY IN	EP LEGISLATION FOOD
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# AgroPat Ultimate - (Launch information in World Map View Detail)



[← PRODUCT DETAILS](#) [▶ REGULATORY](#)

Colur marking Indicates  
Product Launch Status globally

APPROVAL STATUS

REGULATORY INFORMATION

LABEL INFORMATION

Visits



- ☒ WITHDRAWN
- ☒ LAUNCHED
- ☒ DEVELOPING CANDIDATE
- ☒ FILED FOR REGISTRATION
- ☒ NOT AVAILABLE
- ☐ NOT AVAILABLE





# AgroPat Ultimate - (Global - MRL information (19 countries))

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### ● REGULATORY DATA

First approved in 2007, by 2014, chlorantraniliprole was registered for use in many countries, including : algeria, argentina, australia, austria, bangladesh, belgium, brazil, bulgaria, canada, chile, china, colombia, cyprus, czech republic, france, germany, greece, hungary, india, indonesia, ireland, israel, italy, japan, luxembourg, malta, mexico, morocco, netherlands, new zealand, philippines, poland, portugal, romania, serbia, slovakia, slovenia, south africa, spain, switzerland, tunisia, turkey, uk, us and vietnam. Full registration was in progress for uk.

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→ Maximum Residue Limit as per the Food Safety and Standards Authority of India (FSSAI India)

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GBRN	ACTIVE INGREDIENTS	COUNTRY	CROP/ COMMODITY	MAXIMUM RESIDUE LEVELS (OR LIMITS)	RAW AGRICULTURAL COMMODITY/PROCESSED FOOD PRODUCTS MRL	PUBLISHED CROP/ COMMODITY	MAXIMUM RESIDUE LEVELS TYPE	IMPORTED PRODUCTS MARKET ONLY	US CFR PRESCRIBED USE	GLOBAL CROP DICTIONARY TERM	REGULATORY INFORMATION	RESIDUE DEFINITION
925	Chlorantraniliprole	India	Bengal Gram									
925	Chlorantraniliprole	India	Black Gram									

[View Database >>](#)

Click here - To view Maximum Residue Limit as per the Food Safety and Standards Authority of India (FSSAI India)

### → EU PESTICIDES DATA

Substance: chlorantraniliprole

Status: Date of Approval: 01/05/2014 Expiration of Approval: 30/04/2024

ADI: 1.56 mg/kg bw/day

AOEL: 0.36 mg/kg bw/day

### → UK LERAP STATUS

No UK approval for use as a pesticide under EC Regulation 1107/2009

### → USDA PESTICIDE DATA PROGRAM

Appellation: EPA tolerance level: 1.2 [ppm]



# AgroPat Ultimate - Indian Pesticide Approvals

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### RESISTANCE ACTION COMMITTEE (RAC) / CLASSES

### COMBINATION

→ COMBINATIONS [View More](#)

### INDIAN PESTICIDE DATABASE (IPD)

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REGISTERED PRODUCTS IN INDIA 9(3) / 9(3)b / 9(4)

GREEN BOOK REGISTRATION NUMBER(GBRN)	DETAILS	DETAILS (AGROPAT MOLECULE DETAILS)	IPD REG NO	NAME OF DOCUMENT(S)	TITLE OF AUTHORITY	SUBJECT	DATE OF PUBLICATION	DATE OF UPLOAD OF DOCUMENT ON CIBRC WEBSITE	CIB MEETING	REGISTRATION MEETING NUMBER	DATE OF THE MEETING	DATE OF THE CREATION	ACTIVE INGREDIENT / BIOLOGICS / COMBINATION	COMPANY NAME	PRODUCT NAME	TRADE NAME	PRODUCT IMAGE	TRADE IMAGE	CAS RN	CHEMICAL STRUCTURE	CH
<a href="#">To view scientific info on AgroPat - 925</a>	<a href="#">View Details</a>				Central Insecticides Board & Registration Committee								Thiamethoxam 17.5% + Chlorantraniliprole 8.8%GR	Syngenta	Thiamethoxam 17.5% + Chlorantraniliprole 8.8%GR	Voliam flexi					
<a href="#">To view scientific info on AgroPat - 925</a>	<a href="#">View Details</a>				Central Insecticides Board & Registration Committee								Thiamethoxam 20% + Chlorantraniliprole 20%WG	Syngenta	Thiamethoxam 20% + Chlorantraniliprole 20%WG	Virtako					
<a href="#">To view scientific info on AgroPat - 925</a>	<a href="#">View Details</a>				Central Insecticides Board & Registration Committee								Chlorantraniliprole 19.8% + Thiamethoxam 19.8% FS	Syngenta India Ltd	Chlorantraniliprole 19.8% + Thiamethoxam 19.8% FS	Fortenza Duo					
<a href="#">To view scientific info on AgroPat - 925</a>	<a href="#">View Details</a>			Minutes of 372nd Meeting of the Registration Committee	Central Insecticides Board & Registration Committee					372 RC Meeting	05.01.2017		Chlorantraniliprole 4.3% w/w + Abamectin 1.7% SC	M/s Syngenta India Ltd.	Chlorantraniliprole 4.3% w/w + Abamectin 1.7% SC	Voliam Targo (International)					
<a href="#">To view scientific info on AgroPat - 925</a>	<a href="#">View Details</a>				Central Insecticides Board & Registration Committee								Chlorantraniliprole 0.5% GR	DuPont	Chlorantraniliprole 0.5% GR	Frete					

[View Database >>](#)

India Litigation Updation:  
Natco in legal fight with FMC to produce CTPR based insecticide in India.

Click here - To view Indian Pesticide Database to access Indian Pesticide Approvals (CIBRC Updates)

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# AgroPat Ultimate - CIPAC Analytical Data

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- Biology

### ● ANALYTICAL DATA

CIPAC (COLLABORATIVE INTERNATIONAL PESTICIDES ANALYTICAL COUNCIL):

GREEN BOOK REGISTRATION NUMBER (GB RN)	CIPAC HANDBOOK	METHOD TYPE	METHOD REFERENCE	ACTIVE INGREDIENTS	OUTLINE OF METHOD	ANALYSIS OF TECHNICAL AND FORMULATED PESTICIDES	REAGENTS, INDICATORS AND SOLVENTS	REMARKS	MISCELLANEOUS TECHNIQUES
<a href="#">View Database &gt;&gt;</a>  Click here - To view CIPAC (Collaborative International Pesticides Analytical Council)									

### ● TOXICITY DATA

#### → TOXICITY (EPA CLASS) :

Toxicity class: WHO (a.i.) III (company classification); EPA (formulation) IV.

### ● ECOTOXICOLOGY / ECOLOGICAL INFORMATION

#### SUMMARY

Mammalian Tox Summary of Chlorantraniliprole:

Oral: Acute oral LD50 for male and female rats >5000 mg/kg.

Skin and eye: Acute percutaneous LD50 for male and female rats >5000 mg/kg. Not a skin irritant (rabbits). Not a skin sensitiser (guinea pigs, mice).

Inhalation LC50 (4 h) for male and female rats >5.1 mg/l.

NOEL: NOAEL (18 mo) for male mice 158 mg/kg b.w. (EPA Fact Sheet).

ADI/RfD: (EPA) 1.58 mg/kg b.w. (2008). Other Non-mutagenic (Ames).

Toxicity class: WHO (a.i.) III (company classification); EPA (formulation) IV.

#### → HONEYBEES- Toxicity

Aphid toxicity



# AgroPat Ultimate - GLOBAL SCIENTIFIC DOCUMENT ARCHIVAL (GSDA) - REGULATORY AND IP DOCUMENTS ARCHIVE

GLOBAL SCIENTIFIC DOCUMENT ARCHIVAL (GSDA) - REGULATORY AND IP DOCUMENTS ARCHIVE

AgroPat Ultimate™

→ GSDA - With Fact Sheet, FAO, Monograph, DFU, EP Review Report, Certificate, Polymorphism Chapter, Synthesis Report and Scientific documents

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FIELD OF DOCUMENT (AGROCHEMICAL / PHARMACEUTICAL / AYURVEDIC / VETERINARY / HOMEOPATHIC )	ACTIVE INGREDIENT/BIOLOGICS/COMBINATION	TRADE NAME	TYPE OF DOCUMENT (REGULATORY / INTELLECTUAL PROPERTY / GOVT. NOTICE / BOOK/ ARTICLE / OTHER)	NOTICE NUMBER / DOCUMENT NUMBER / CERTIFICATE NUMBER	PATENT OR NON-PATENT REFERENCE (S)	PATENT PUBLICATION NUMBER / APPLICATION NUMBER / PATENT DOCUMENT NUMBER	NAME OF DOCUMENT(S) (LABEL / FACT SHEET / MONOGRAPH / SDS / CERTIFICATE / OTHERS)	PATENT TYPE (PRODUCT / PROCESS / FORMULATION / POLYMORPH / METHOD OF USE (MOU) / PARTICLE SIZE PATENTS)	PRODUCT TYPE (SOLO / COMBINATION / ADMIXTURE / SOLVENT / INTERMEDIATE)	TYPE OF COMBINATION (2 / 3 / 4 / 5 WAY MIXTURE)	COUNTRY	PROVINCE	REG.NO / EPA NO.	ABSTRACT	DESCRIPTION	APPLICANT (S) / COMPANY (S) / INSTITUTE (S)	INVENTOR (S) / AUTHOR (S)
AGROCHEMICAL	CHLORANTRANILIPROLE / RYNAXYPYR				NON-PATENT		Fact Sheet										
AGROCHEMICAL	Chlorantraniliprole				NON-PATENT		FAO										
AGROCHEMICAL	Chlorantraniliprole				NON-PATENT		Monograph										
AGROCHEMICAL	Lambda Cyhalothrin + Chlorantraniliprole	AMPLIGO			NON-PATENT		Certificate		Combination	2 way	Brazil		0610			SYNGENTA	
AGROCHEMICAL	Chlorantraniliprole + Abamectin	VOLIAM TARGO			NON-PATENT		Certificate		Combination	2 way	Brazil		10815			SYNGENTA	

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Click here - To access Fact Sheet, FAO, Monograph, DFU, EP Review Report, Certificate, Polymorphism Chapter, Synthesis Report and Scientific documents

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# AgroPat Ultimate - GLOBAL AGRO PRODUCT DIRECTORY (GAPD)

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### ● GLOBAL SCIENTIFIC DOCUMENT ARCHIVAL (GSDA) - REGULATORY AND IP DOCUMENTS ARCHIVE

AGROCHEMICAL	Chlorantraniliprole				NON-PATENT		Monograph											
AGROCHEMICAL	Lambda Cyhalothrin + Chlorantraniliprole	AMPLIGO			NON-PATENT		Certificate		Combination	2 way	Brazil		0610				SYNGENTA	
AGROCHEMICAL	Chlorantraniliprole + Abamectin	VOLIAM TARGO			NON-PATENT		Certificate		Combination	2 way	Brazil		10815				SYNGENTA	


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### ● GLOBAL AGRO PRODUCT DIRECTORY (GAPD)

## AgroPat Ultimate™

→ Approved Product Globally - with Solo & Combination Label SDS, Certificates and other relevant documents

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GREEN BOOK REGISTRATION NUMBER (GB RN) (PRIMARY KEY)	DETAILS	PRODUCT PACKAGE IMAGES 1	TRADEMARK IMAGE	ACTIVE INGREDIENT / BIOLOGICS / COMBINATION	CHEMICAL STRUCTURE	CHEMICAL CLASS	INDICATION	TRADE NAME (S) / PROPRIETARY NAME (S)	COUNTRY	JUPAC	CAS RN	RAC	ACTION MODE	STATE PROVINCE	PRODUCT SUMMARY	BENEFITS	DOSAGE	RECOMMENDATIONS	USE RATES	PRECAUT
To view scientific info on AgroPat - 925	<a href="#">view More</a>			CHLORANTRANILIPROLE				YATES GRUB SHIELD KILLS & PROTECTS AGAINST LAWN GRUBS FOR UP TO 6 MONTHS GRANULAR	Australia											
To view	<a href="#">view</a>			CHLORANTRANILIPROLE				Chlorantraniliprole	Australia											

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**Click here - To view Global Agro Product Directory (GAPD) - To access approved products globally - with Solo & Combination Label SDS, Certificates and other relevant documents**



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# AgroPat New Indian Pesticide Database (New IPD) - Approved Pesticides with their technical as well as formulation details

Web access Link: <https://www.chemrobotics.com/agropat-lighter/ipd>

## Indian Pesticide Database (IPD)

Active Ingredient / Biologics / Combination:

Select Operator:  Select Text Search Field:  Select Endorsment:  Select Title Of authority:  Select Name of Document:

- 54th Meeting Minutes of the Central Insecticides Board (CIB)
- 53rd Meeting Minutes of the Central Insecticides Board (CIB)
- 52nd Meeting Minutes of the Central Insecticides Board (CIB)
- 51st Meeting Minutes of the Central Insecticides Board (CIB)
- 50th Meeting Minutes of the Central Insecticides Board (CIB)
- 49th Meeting Minutes of the Central Insecticides Board (CIB)
- 48th Meeting Minutes of the Central Insecticides Board (CIB)
- 47th Meeting Minutes of the Central Insecticides Board (CIB)
- 46th Meeting Minutes of the Central Insecticides Board (CIB)
- 45th Meeting Minutes of the Central Insecticides Board (CIB)
- 44th Meeting Minutes of the Central Insecticides Board (CIB)
- 42nd Meeting Minutes of the Central Insecticides Board (CIB)
- 415th Meeting Minutes of the Registration Committee (RC)
- 414th Meeting Minutes of the Registration Committee (RC)
- 413th Meeting Minutes of the Registration Committee (RC)
- 412th Meeting Minutes of the Registration Committee (RC)
- 411th Meeting Minutes of the Registration Committee (RC)
- 410th Meeting Minutes of the Registration Committee (RC)
- 409th Meeting Minutes of the Registration Committee (RC)**
- 408th Meeting Minutes of the Registration Committee (RC)

changes etc.

**Product Registered under Section 9(3):**

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# Indepedent Vertical - Global Agro Product Directory - Approved Pesticides with their technical as well as formulation details (40 Countries)

Web access Link: <https://www.chemrobotics.com/pesticides-directory/>

HOME AGRO PRODUCTS

## GLOBAL AGRO PRODUCT DIRECTORY

China

AND

OR

Select Filter

- Active Ingredient
- Chemical Class
- Indication
- Trade Name
- Type Of Product
- Combination Type
- Ratio
- Crop
- Pest/pathogen/spectrum
- Site
- Description
- Class
- Volume
- Concentration
- Formulation
- Form Of Action
- use
- user restriction
- Toxicological Classification
- Applicant

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"Global Agro Product Directory" is an Agrochemical product directory where you can track the product details. The product can be tracked.

- Approved products with all business as well as technical details
- Label (English translated wherever), factsheet, etc.
- Crop, use and other recommendation
- Registered company with their registration number
- Technical and formulation supplier with their contact details
- Importers of formulation as well as technical details
- Product image as well as product trademark image

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**Operator "and" and "or" can be applied on any searched data**

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