

New Registrations of Pesticide Technical in China in 2023

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1. Introduction

China implements increasingly stringent regulations on pesticides since the revision of Regulations of Pesticide Management in 2021. The Ministry of Agriculture and Rural Affairs of China (MARA) lays emphasis on quality, effectiveness and risk control with regard to the review of pesticide registration, prohibiting domestic registrations of pesticides with safety risks and encouraging applicants to file for safe and efficient products and add risk assessment during the application process. In China, the type code "PD" represents full registrations mainly for agricultural use, covering field pesticides (such as herbicides, insecticides, and fungicides), rodenticides, molluscicides, grain storage pesticides, etc.; "WP" stands for pesticides for sanitary use (hygienic insecticide in general); and "EX", first introduced in the Announcement No. 269 in 2020, is for the pesticides registered for export only. Since 2022, full registrations of some field pesticides, such as paraquat, are being gradually converted to export-only ones when renewed.

Pesticide registration is an important gateway for pesticide products to enter the market, hence the changes in registration can, to a certain extent, reflect the current situation and trends in the development of the pesticide industry. This report provides an overview of the new registrations of pesticide technical in China in 2023.

What's about the number of new registrations of pesticide technical by different pesticide category? How about the number of new registrations by different toxicity level? How many pesticide active ingredients were included in the new registrations of pesticide technical? Which enterprise had the most new registrations? And how about the foreign enterprises registered in China? In this report, you will find the answers to the questions above, and to some more.

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2. Approach for this report

The report is drafted by diverse methods as follows:

- Desk research

The sources of desk research are various, including published magazines, journals, government websites and statistics, industrial statistics, association seminars as well as information from the Internet. A lot of work has gone into the compilation and analysis of the obtained information.

- Internet

CCM visited government websites and contacted with players in the domestic agrochemical industry through BXB websites and software.

- Data processing and presentation

The data collected and compiled are sourced from:

√CCM's database

√Published articles in periodicals, magazines, journals and third-party databases

√Statistics from governments and international institutes

√Telephone interviews with domestic producers, joint ventures, service suppliers and governments

√Third-party data providers

√Comments from industrial experts

√Professional databases from other sources

√Information from the internet

The data from various sources have been combined and cross-checked to make this report as precise and scientific as possible. Throughout the process, a series of internal discussions were held in order to analyse the data and draw the conclusions.

3. Executive summary

According to data from the China Pesticide Information Network, the number of new pesticide registrations (first approved in XXXX) surged XX.X% to X,XXX from XXX in XXXX, and the renewal registrations rocketed XXX.X% to XX,XXX (vs. X,XXX in XXXX). The approved pesticides for domestic use feature environment-friendliness, high efficiency and low risk, mainly in the form of renewal registration, and the faster growth of renewal pesticides suggested an ever higher barrier of new registration for pesticide enterprises and stricter environmental protection and safety production policies.

X,XXX Field pesticides, XX hygienic insecticides and XXX export-only pesticides were among the newly awarded registration certificates in XXXX. Among them, low-toxicity pesticides made up more than XX% of the total. There were XX novel pesticides with their first registration, involving XX active ingredients, of which X (=XX%) were for export only.

4. What is in the report?

Note: Key data/information in this sample page is hidden, while in the report it is not.

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1.1 New registration status of pesticide technical

According to the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs of the People's Republic of China (ICAMA), China recorded XX new registrations of pesticide technical—XX new technical material (TC) and XX new technical concentrate (TK), accounting for X.X% and XX.X% of the total under the same form, respectively—and X,XXX renewals in XXXX.

The *Announcement No. XXX* publicised by the Ministry of Agriculture and Rural Affairs of China (MARA) on X June, XXXX stipulated that pesticide registration for export only would be required to use "EX" as the type code, and since XXXX, the previously full registrations of field pesticides such as paraquat have been gradually changed to export-only ones when renewed. As of XX Dec., XXXX, there were XXX valid pesticide registrations granted for export only, with XX export-only technicals. Among the renewed registrations approved in XXXX, XX were changed to export-only ones from full ones, including XX technical products. The active ingredients involved in the change were X,X-D butylate, chlorimuron-ethyl, metsulfuron-methyl and paraquat.

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1.2 New registrations by geographic region

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Table 1.2-1 New pesticide technical registrations in China by category, 2023

No.	Region	Herbicide	Insecticide	Fungicide	Others	XXXXX
X	XXXX XXXXX	XX	XX	X	X	XX
X	XXXXXXXXXX XXXXX	X	X	X	X	XX
X	XXXXXXXXXX XXXXX	X	X	X	X	X
X	XXXXX XXXXX	X	X	X	X	X
X	XXXXXXXX XXXXX	X	X	X	X	X
X	XXXXXXXXXX XXXXX	X	X	X	X	X
X	XXXXXXXXXX	X	X	X	X	X
X	XXXXX XXXXX	X	X	X	X	X
XXXXX		XX	XX	XX	X	XX

Note: One TK of insecticide for sanitary use approved in 2023 was included into those full insecticide registrations.
Source: ICAMA & CCM

1.3 New registrations by category

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Table 1.3-1 New registrations of pesticide technical in China by category, 2023

No.	Category	TC	TK	Number of registration
X	XXXXXXXXXX	XX	X	XX
X	XXXXXXXXXX	XX	X	XX
X	XXXXXXXXXX	XX	X	XX
X	XXXXX XXXXX XXXXXXXXXXX	X	X	X
X	XXXXX XXXXXXXXXXX XXXXXXX	X	X	X
XXXXX		XX	XX	XX

Note: One TK of insecticide for sanitary use approved in 2023 was included into those full insecticide registrations.
Source: ICAMA & CCM

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1.5 Registrants of new registrations

In XXXX, there were XX Chinese registrants and X overseas players obtaining new permits of pesticide technical, the former of which are distributed in XX provinces/autonomous regions/municipalities around Chinese mainland. Among them, XX enterprises were located in Jiangsu Province (East) and Shandong Province (East), X in Zhejiang Province (East), X in Sichuan Province (Southwest) and Shaanxi Province (Northwest) and X in Inner Mongolia Autonomous Region (North).

In China, Lier Chemical Co., Ltd. (Lier Chemical) held totalling eight new TC/TK registrations, together with its subsidiaries Guang'an Lier Chemical Co., Ltd. and Hunan Lier Biotechnology Co., Ltd., which means Lier Chemical holds the largest amount of new registrations in XXXX, accounting for X.X% of the total. Jiangsu Youjia Plant Protection Co., Ltd. (subsidiary of Jiangsu Yangnong Chemical Co., Ltd.) and Shandong Weifang Rainbow Chemical Co., Ltd. each took X new TC/TK permits, followed by Shaanxi Meibang Pharmaceutical Group Co., Ltd. that owned X new ones.

It is worth mentioning that two new TC/TK registrations were held by foreign registrants, namely Syngenta AG and Tagros Chemicals India Pvt. Ltd.

Table 1.5-1 Chinese registrants of new pesticide technical registrations by province/region, 2023

No.	XXXXXX	Number of registration	Number of active ingredient	Number of registrant
X	XXXXXXXXXXXXXXXXXX	XX	XX	XX
X	XXXXXXXXXXXXXXXXXX	XX	XX	XX
X	XXXXXXXXXXXXXXXXXX	X	X	X
X	XXXXXXXXXXXXXXXXXX	X	X	X
X	XXXXXXXXXXXXXXXXXX	X	X	X
X	XXXXXX XXXXXXXXX	X	X	X
X	XXXXXX XXXXXXXXX	X	X	X
X	XXXXXX XXXXXXXXX XXXXXXXXX XXXXXX	X	X	X
X	XXXXXX XXXXXXXXX	X	X	X

XX	XXXXXXXX	X	X	X
XX	XXXXX XXXXXXXX	X	X	X
XX	XXXXXXXX XXXXXXXX	X	X	X
XX	XXXXXX XXXXXXXX	X	X	X
XX	XXXXX XXXXXXXX	X	X	X
XX	XXXXXXXXXX XXXXXXXX	X	X	X
XX	XXXXXX XXXXXXXX	X	X	X
XX	XXXXXXXX XXXXXXXX	X	X	X
XX	XXXXXXXX XXX XXXXXXXXXXXX XXXXXX	X	X	X
XX	XXXXXXXXXX XXXX	X	X	X
XXXXX		XX	XX	XX

Note: Since certain active ingredients could be applied by Chinese registrants in different provinces, the sum of counts in this chart might not equal the total.

Source: ICAMA & CCM

...

Table 1.5-2 New registrations of pesticide technical held by Lier Chemical Co., Ltd., 2023

No.	Registrant	Registration code	Active Ingredient	Content	Formulation	Toxicity	Expiry date	Category
X		XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX XX	XXXXXXXXXX X
X	XXXX XXXXXXXXXX XXXX XXXX	XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXXXXX X
X		XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXXXXX X
X		XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXXXXX X
X	XXXXX XXXX XXXXXXXXXXXX XXX XXXX XXXX	XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X
X		XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX XX	XXXXXXXXXX X
X	XXXXXXXXXX XXXX XXXXXXXXXX XXXX XXXX	XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X
X		XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX XXXX	XXX	XX	XXX	XXXXXXXXXX XX	XXXXXXXXXX XXX

Source: ICAMA & CCM

Table 1.5-3 New registrations of pesticide technical held by Jiangsu Flag Chemical Industry Co., Ltd., 2023

No.	Registrant	Registration code	Active Ingredient	Content	Formulation	Toxicity	Expiry date	Category
X		XXXXXXXXXX XX	XXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXXXXX
X	XXXXXXXXXX XXXX XXXXXXXXXX XXXXXXXXXX XXXX XXXX	XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX XX	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXXXXX XX
X		XXXXXXXXXX XX	XXXXXXXXXXXXXXXXXXXX X	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXXXXX
X		XXXXXXXXXX XX	XXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX XX	XXXXXXXXXX XX

Source: ICAMA & CCM

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1.6 Active ingredients of new registrations

In the period of X Jan. to XX Dec., XXXX, there were XX active ingredients in the XX new registrations of pesticide technical applied for approval in China. Among them, XX active ingredients were registered as full registrations, with the number of prothioconazole (XX), glufosinate-p (X), chlorantraniliprole (X) and topramezone (X) topping the list; besides, XX active ingredients can be used for export only, topped by teflubenzuron (X) and mesotrione (X) in terms of number of registration.

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2.1 Herbicide registration, registrant and active ingredient in China, 2019–2023

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Table 2.1-1 Number of registration, registrant and active ingredient of herbicide technical newly approved in China, 2019–2023

Item	2019	2020	2021	2022	2023
XXXXXXXXXXXXX	X	X	XX	XX	XX
XXXXXXXXXXXXX	X	X	XX	XX	XX
XXXXXX XXXXXXXXXXX	X	X	XX	XX	XX

*Note: Export-only registrations changed from full registrations in 2022 and 2023 are excluded in the calculation.
Source: ICAMA & CCM*

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3.1 Insecticide registration, registrant and active ingredient in China, 2019–2023

Under insecticide category, XX technicals (hygienic insecticide included) with XX kinds of active ingredients were approved in China in XXXX, an increase over the previous years. XX Of the registrations were filed for agricultural or hygienic use, while the remaining X, with X kinds of active ingredients, can only be sold overseas.

Regarding registrants, XX Chinese and one Indian enterprises obtained new permits of insecticide technical in XXXX.

Table 3.1-1 Number of registration, registrant and active ingredient of insecticide technical in China, 2019–2023

Item	2019	2020	2021	2022	2023
XXXXXXXXXXXXX	X	X	XX	XX	XX
XXXXXXXXXXXXX	X	X	XX	XX	XX
XXXXXX XXXXXXXXXXX	X	X	XX	X	XX

Source: ICAMA & CCM

...

5.1 Export-only registration, registrant and active ingredient in China

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Table 5.1-1 Number of new export-only registration, registrant and active ingredient of pesticide technical in China by region, 2023

No.	XXXXXXXX	Number of registrations	Number of registrants	Number of active ingredients
X	XXXXXXXX XXXXXXXX	XX	X	XX
X	XXXXXXXX XXXXXXXX	X	X	X
X	XXXXXXXX XXXXXXXX	X	X	X
X	XXXXX XXXXXXXX	X	X	X
X	XXXXX XXXXXXXX	X	X	X
X	XXXXXXXXXXXX XXXXXXXX	X	X	X
X	XXXXXXXX XXXXXXXX	X	X	X
X	XXXXX XXXXXXXX XXXXXXXXXXXX XXXXXXXX	X	X	X
XX	XXXXXXXX XXXXXXXX	X	X	X
	XXXXX	XX	XX	XX

Note: Since certain active ingredients could be applied by Chinese registrants in different provinces, the sum of counts in this chart might not equal the total.

Source: ICAMA & CCM

Table 5.1-2 Registrants of new export-only registrations of pesticide technical in China, 2023

No.	Registrant	Number XX registrations
X	XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXX XXXX	X
X	XXXXXXXX XXXX XXXXXXXX XXXXXXXX XXXX XXXX	X
X	XXXXX XXXXXXXX XXXXXXXX XXXX XXXX	X
X	XXXXXXXX XXXXXXXX XXXXXXXXXXXXXXX XXXX XXXX	X
X	XXXX XXXXXXXX XXXX XXXX	X
X	XXXXXXXX XXX XXX XXXXXXXXXXXXXXX XXXX XXXX	X

Table 5.1-3 New export-only (TC&TK) registrations by category, 2023

Category	TC	TK	Number of export-only registrations
XXXXXXXXXX	XX	X	XX
XXXXXXXXXX	X	X	X
XXXXXXXXXX	X	X	X
XXXXX	XX	X	XX

Source: ICAMA & CCM

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5.2 Details of export-only registrations of pesticide technical in China

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Table 5.2-1 New registrations of herbicide technical for export only in China, 2023

No.	Registration code	Active Ingredient	Content	Formulation	Toxicity	Expiry date	Registrant
X	XXXXXXXXXX X	XXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXXXX XXXXX XXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXX XXXX

X	XXXXXXXXXX X	XXXXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXX XXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXXXX XXXX XXXX
X	XXXXXXXXXX X	XXXXXXXXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXXXX X XXXX XXXX
XX	XXXXXXXXXX X	XXXXXXXXXXXXXXXXXXXX XX	XXXXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXXXX X XXXX XXXX
XX	XXXXXXXXXX X	XXXXXXXXXXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXX XXXXXXXXXX XXXX XXXX
XX	XXXXXXXXXX X	XXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXX XXXX
XX	XXXXXXXXXX X	XXXXXXXXXXXX	XXX XX	XXX	XXXXXXXXXX	XXXXXXXXXX XXXX XXXX

XX	XXXXXXXXXX X	XXXXXXXXXX	XXXXXX	XX	XXX	XXXXXXXXXX X	XXX XXXXXXXXXX XXXXXXXXXX XXXX XXXX
XX	XXXXXXXXXX X	XXXXXXXXXXXXXXXXXXXXX X	XXX	XX	XXX	XXXXXXXXXX X	XXXXXXX XXXXXXX XXXX XXXXXXX XXXX XXXX

Source: ICAMA & CCM

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