

New Registrations of Pesticide Formulation in China in 2022

The Eighth Edition

May 2023

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1. Introduction

This issue is about new registrations of pesticide formulations in China in 2022. It not only shows an overview of China's new registrations of pesticide formulations in 2022, but also introduces the status of newly registered formulations under the categories of herbicide, insecticide and fungicide, as well as the export-only registrations in details. The issue also presents those first-registration active ingredients of pesticide formulations in China during the year. Moreover, it provides the registration status of pesticides involving certain active ingredients required to be changed from full registrations to export-only ones in China.

So this issue can reflect the development status of the pesticide industry in China and guide investment and business movements for the upstream players who pay close attention to the industry or try to find opportunities from it. What's about the number of new registrations of pesticide formulations 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 formulations? 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.

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

In XXXX, China's new registration of pesticides dwindled sharply by XX.X% YoY. The top XX active ingredients of China's newly approved pesticide formulations made up XX.X% of new registrations; five formulations were registered with new active ingredients; in addition, there were XX new bio-pesticide formulations.

In China, there were XX registrants holding X or above new registrations of herbicide formulation, which amounted to XXX registrations, taking up XX.X% of the total new herbicide approvals. Newly approved herbicide formulations in the forms of SL, EC and OD accounted for XX.X% of the total XXX registrations in this category; Amidst XXX fungicide formulations issued in XXXX, SC made up XX.X% of the total, ranking the first by formulation type. In XXXX, new insecticide formulations came in XX different formulation types, in which SC, EC and WG accounted for the most.

In China, pesticides exclusively for export-only should be marked with "EX-" serial codes, and are not allowed to be sold in China since June XXXX. In XXXX, over XXX new export-only registrations of pesticide were granted, representing great progresses in export-only registration.

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 Registration status of China's pesticide formulation, 2022

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In XXXX, the XXX new formulation registrations, under XX pesticide categories with XXX single and/or mixed active ingredient(s), marked a XX% of yearly decrease. Top three formulation categories, herbicides, insecticides and fungicides, represented XXX registrations combined, accounting for XX.X% of the total. XXX Herbicide formulations were recorded with XXX one and/or more active ingredient(s), XXX insecticide formulations (agricultural and/or hygienic ones) with XXX active ingredient(s), and XXX fungicide formulations with XX active ingredient(s).

...

The newly registered pesticide formulations covered XX types in XXXX. By number of registrations, the top X formulation types were suspension concentrate (SC), soluble concentrate (SL), emulsifiable concentrate (EC), water dispersible granule (WG) and oil dispersion (OD), accounting for XX.X% of the total; the top XX counted XXX (=XX.X%) new registrations.

Table 1.1-1 China's new registrations of pesticide formulation by formulation type, 2020–2022

No.	Formulation type	Code	Number of registrations, 2022	Number of registrations, 2021	Number of registrations, 2020
X	XXXXXXXXXX XXXXXXXXXX	XX	XXX	XXX	XXX
X	XXXXXXX XXXXXXXXXXXX	XX	XXX	XXX	XX
X	XXXXXXXXXXXX XXXXXXXXXXXX	XX	XX	XXX	XXX
X	XXXXXX XXXXXXXXXXXX XXXXXXX	XX	XX	XXX	XX

X	XXX XXXXXXXXXXXXX	XX	XX	XXX	XX
X	XXXXXXXX	XX	XX	XXX	XX
X	XXXXXXXX XXXXXX	XX	XX	XXX	XX
X	XXXXXXXX XXXXXXXXXXXXXXX XXX XXXX XXXXXXXXXXX	XX	XX	XXX	XX
X	XXXXX XXXXXXXX XXXXXXXX	XX	XX	XX	XX
XX	XXXXXXXXXXXXXXXXXX	XX	X	XX	XX
XX	XXXXXXXXXX XXX XX XXXXX	XX	X	XX	XX
XX	XXXXX XXXXXXXX XXXXXX	XX	X	XX	XX
XX	XXXX	XX	X	X	X
XX	XXXXXXXXXXXXXXXXXX	XX	X	X	X
XX	XXXXXXXX XXXXXXXXXXXXX	XX	X	X	X
XX	XXXXXXXX XXXX	XX	X	X	X
XX	XXXXXX	XX	X	X	X
XX	XXXXX XXX XXXXXXX XXXXXX	XX	X	X	X
XXXXXX			X	XXX	XX
XXXXX			XXX	XXXXX	XXX

Source: ICAMA & CCM

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1.2 Active ingredients of China's new registration of pesticide formulation, 2022

...

In China, a total of XXX new registrations of single pesticide formulations contained XXX different active ingredients. Thereinto, based on the number of new registrations, the top XX active ingredients made up

XX registrations, accounting for XX.X% of the total single pesticide formulations.

As for mixed formulations, XXX new registrations were granted in XXXX with above XXX kinds of active ingredients. Thereinto, XX approvals were formulations mixed with XX kinds of three active ingredients; registration of four-actvie-ingredient was not available in XXXX. Ranked by the number of registration, the top XX active ingredients took up XX.X% (=XX) of mixed pesticide formulations, including MCPA•glyphosate, lufenuron•abamectin, X,X-D-ethylhexyl•acetochlor•metribuzin and pyriproxifen•thiamethoxam.

Table 1.2-1 Top 10 active ingredients of single pesticide formulations by number of new registrations in China, 2022

No.	Active ingredient	Category	Number of registrations
X	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XX
X	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XX
X	XXXXXXXXXX	XXXXXXXXXXXX	XX
X	XXXXXXXXXXXX	XXXXXXXXXX	XX
X	XXXXXX	XXXXXXXXXX	XX
X	XXXXXXXXXXXX	XXXXXXXXXX	X
X	XXXXXXXXXXXX XXXXXXX	XXXXX XXXXXXX XXXXXXXXX	X
X	XXXXXXXXXXXX	XXXXXXXXXXXX	X
X	XXXXXXXXXXXX	XXXXXXXXXX	X
XX	XXXXXXXXXXXX	XXXXXXXXXXXX	X
XXXXX			XX

Source: ICAMA & CCM

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2.1 Main registrants of herbicide formulation in China

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Table 2.1-1 Main registrants of new herbicide formulation registration in China, 2022

No.	Registrant (EN)	Registrant (CN)	XXXXXXXX	Number of registrations
X	XXXXXXXX XXXXXX XXXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	XX
X	XXXXXXXX XXXXXX XXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	XX
X	XXXXXXXX XXXX XXXXXXXXXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXX XXXXXXXX	X
X	XXXXXXXX XXXXXXXXXXX XXXXXXXX XXXXXXXX XXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	X
X	XXXXXXX XXXXXXXXXXX XXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	X
X	XXXXXXXX XXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	X
X	XXXX XXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXX	XXXXXXX XXXXXXXX	X
X	XXXXXXXX XXXXXXX XXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	X
X	XXX XXXXXXX XXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXX XXXXXXXX	X
XX	XXXX XXXXXX XXXXXXXX XXXXXXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	X
XX	XXXXX XXXXXX XXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXX	XXXXX XXXXXXXX	X
XX	XXX XXXXXXX XXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXX XXXXXXXX	X
XX	XXXXXXXX XXXXXXX XXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXX XXXXXXXX	X
XX	XXXXXXX XXXX XXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXXXXXX XXXXXXXX	X
XX	XXXXXXXX XXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXX	X

	XXXXXXXXXXXXXXXX XXXXXXXXXXXX XXXX XXXX		XXXXXXXXXX	
XXXXX				XXX
XXXXX				XXX

Source: ICAMA & CCM

2.2 New registrations of herbicide formulation by formulation type

...

Table 2.2-1 New registrations of herbicide formulation in China by formulation type, 2022

No.	Formulation type	Code	Number of registrations
X	XXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXX XXXXXXXXXXXX	XX	XX
X	XXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXX XXXXXXXXXXXX XXXXXXXX	XX	XX
X	XXXXXX XXXXXXXX XXXXXXXX	XX	X
X	XXXXXX XXXXXXXX	XX	X
X	XXXXXXXXXXXXXXXXXXXX	XX	X
X	XXXXXXXXXX XXXXXXXX	XX	X
XX	XXXXXXX	XX	X
XX	XXXXXXXXXX XXX XX XXXXX	XX	X
XX	XXXXXXXXXX XXXXXXXXXXXX	XX	X
XX	XXXXXX XXXXXXXX XXXXXXXX	XX	X
XXXXX			XXX

Source: ICAMA & CCM

...

2.4 Major herbicide active ingredients of China's new registration

Among the XXX new registrations of herbicide formulations in XXXX, there were XXX kinds of active ingredients. In particular, XXX new formulations were approved with single active ingredient, and the other XX ones contained two or three active ingredients.

As to those new registrations of single herbicide formulations, XX kinds of active ingredients were involved. Calculated by the number of new registration, glufosinate-ammonium and glyphosate were the two most popular active ingredients, accounting for XX registrations altogether, followed by X,X-D, topramezone, flumioxazin, etc. There were XX kinds of active ingredient combinations used in XX mixtures registered under the herbicide formulation category. By the number of new registration, the top X combinations included MCPA•glyphosate, X,X-D-ethylhexyl•acetochlor•metribuzin, glyphosate•glufosinate-ammonium, nicosulfuron•mesotrione•atrazine, etc., accounting for XX new registrations.

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3.3 New registrations of insecticide formulation by toxicity

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Table 3.3-1 New registrations of insecticide formulation in China by toxicity level, 2022

No.	Toxicity	Number of registrations
X	XXX	XXX
X	XXXX	XX
X	XXXXXXXX	XX
X	XXXXXXXX XXXX XXXXXX XXXXXX	XX
X	XXX XXXX XXXXXX XXXXXX	X
XXXXX		XXX

Source: ICAMA & CCM

...

4.2 New registrations of fungicide formulation by formulation type

...

Table 4.2-1 New registrations of fungicide formulation in China by formulation type, 2022

No.	Formulation type	Code	Number of registrations
X	XXXXXXXXXX XXXXXXXXXXXXX	XX	XX
X	XXXXX XXXXXXXXXXXXX XXXXXXX	XX	XX
X	XXXXXXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXXXXXXX XXXXXXX	XX	XX
X	XXXXXXX	XX	X
X	XXXXXXXX XXXXXXXXXXXXX	XX	X
X	XXXXXXXXXX XXX XX XXXXX	XX	X
X	XXXXXXXXXX XXXXXXXXXXXXX XXX XXXX XXXXXXXXXXXXX	XX	X
X	XXXXXXXXXXXXXXXXXXXX	XX	X
XX	XXXXX XXXXXXXXXXX	XX	X
XX	XXXXX XXXXXXXX XXXXXXX	XX	X
XXXXX			XXX

Source: ICAMA & CCM

...

4.4 Major fungicide active ingredients of China's new registration

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Table 4.4-1 Top 6 active ingredients of fungicide formulation in China, 2022

No.	Active ingredient	Number of registrations
X	XXXXXXXXXXXXXXXX	X
X	XXXXXXXXXX	X
X	XXXXXXXXXXXXXXXX	X
X	XXXXXXXXXXXXXXXX	X
X	Pyraclostrobin·fluopyram	X
X	XXXXXXXXXXXXXXXX	X
	XXXXX	XXX
	XXXXX	XXX

Source: ICAMA & CCM

...

5.1 Status of China's export-only registration, 2020–2022

China facilitates market supervision of pesticide and offer easy identification for consumers by using special registration production certificate numbers on pesticide TC/TK and formulations, such as codes starting with "PD", "PDN", "WP" or "EX". Among them, the "EX-" codes are for pesticides exclusively for export which are not allowed to be sold and used in China since XXXX.

According to the data released by ICAMA, totaling XXX export-only registrations of pesticides (technical & formulation) were granted in XXXX–XXXX, including X cancelled formulation products. Amidst the valid XXX formulation registrations, XX% (=XXX) were issued in XXXX, marking great progresses compared with that in XXXX and XXXX.

Table 5.1-1 Export-only registration of pesticide technical & formulation in China, 2020–2022

Year	Formulation	Technical (TC &TK)	XXXXX
XXXX	X	X	X
XXXX	XX	XX	XXX
XXXX	XXX	XX	XXX
XXXXX	XXX	XX	XXX

Note:1. Two formulations (EX20210081 and EX20220066) were excluded, both of which were cancelled as of March 2023.

2. In 2022, 16 newly changed export-only registrations from full registration were added with 3 TC/TK pesticides and 13 formulations.

Source:ICAMA & CCM

...

5.3 Export-only registration of pesticide formulation by category, 2022

...

Table 5.3-1 China's new registrations of export-only formulation by category, 2022

No.	Category	Number of registrations	Proportion
X	XXXXXXXXXX	XXX	XXX
X	XXXXXXXXXX	XX	XXX
X	XXXXXXXXXX	XX	XXX
X	XXXXX XXXXXX XXXXXXXXXXXX	X	XX
X	XXXXXXXXXX	X	XX
	XXXXX	XXX	XXXX

Source:ICAMA & CCM

5.4 Export-only registration of pesticide formulation by formulation type, 2022

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Table 5.4-1 China's new registrations of export-only formulation by formulation type, 2022

No.	Formulation type	Code	Number of registrations
X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXX XXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXXXXXXXXXXXXXXXXX	XX	XX
X	XXXXX XXXXXXXX XXXXXXXX	XX	X
X	XXXXXXXXXXXX XXX XX XXXXX	XX	X
X	XXXXX XXX XXXXXXX XXXXXXX	XX	X
X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXX XXXX XXXXXXXXXXXXXXX	XX	X
XX	XXXXX	XX	X
XX	XXX XXXXXXXXXXXXXXX	XX	X
XX	XXXXXXXXXXXXXXXXXXXX	XX	X
XXXXX			XXX

Source: ICAMA & CCM

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