

New Registrations of Pesticide Technical in China in 2021

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Executive Summary

According to data released by the ICAMA on 31 Dec., 2021, there were altogether 54 new & full registrations of pesticide technical (renewals excluded) in China in 2021.

In 2021, herbicides were the most registered sub-category of new pesticide technical in China, followed by fungicides and insecticides. Sorted by application, there were 53 registrations for agricultural use, and 1 was registered as hygienic insecticide; by toxic levels, over 70% belong to low-toxic ones. In terms of active ingredient, there were 45 approved in China in 2021 and 92% featured home-based enterprises.

There were 51 new registrations of pesticide technical in China obtained by 36 domestic enterprises in 2021, while 3 new registrations of pesticide technical were acquired by 3 foreign enterprises.

Zhengzhou Zhengshi Chemical Co., Ltd., Max (Rudong) Chemicals Co., Ltd. and Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd. were the top three registrants of pesticide technical in number of new registrations in China.

During 2021, the number of new active ingredients firstly registered in China in 2021 reached 23, taking up about 51% of the total ones. These represented 26 new technical registrations in China—21 new active ingredients held by domestic enterprises and 3 new active ingredients owned by foreign companies.

Methodology

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 B2B 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.

1 Registration overview of pesticide technical

1.1 New registration status of pesticide technical in China in 2021

According to the Institute for the Control of Agrochemicals, Ministry of Agriculture (ICAMA), China recorded 54 new registrations of pesticide technical—42 new technical material (TC) and 12 new technical concentrate (TK)—and 530 renewals under this category in 2021.

Since March 2017, China has abolished the temporary registration system, and legalised that the pesticide products that are manufactured in China and are exported to China, are subjected to national registration system. This practice has made significant drops available in the number of temporary registrations meeting their terms of validity. In 2021 alone, there were 54 new & full registrations of pesticide technical in China, up 157% and 108% compared with the respective numbers in 2020 and 2019.

Table 1.1-1 China's new registrations of pesticide technical, 2021

Registration	TC	TK	Total
New	42	12	54
Renewal	501	29	530
Total	543	41	584

Source: Institute for the Control of Agrochemicals, Ministry of Agriculture (ICAMA) & CCM

Table 1.1-2 New (full & temporary) registrations of pesticide technical in China, 2016–2021

Year	Full registration	Temporary registration	Total
2016	252	19	271
2017	422	12	434
2018	376	1	377
2019	26	0	26
2020	21	0	21
2021	54	0	54

Source: ICAMA & CCM

1.2 New registrations by application

By application, there were 53 registrations applied for agricultural use among 54 new registrations in China in 2021. Notably, there was 1 hygienic insecticide (90% tricosene TC), which was newly registered in Jan. 2021.

Table 1.2-1 New registrations of pesticide technical in China by application, 2021

Application	TC	TK	Number of registrations
Agriculture	41	12	53
Sanitation	1	0	1
Total	42	12	54

Source: ICAMA & CCM

1.3 New registrations by category

In 2021, there were five kinds of newly registered pesticide technical, namely herbicide, fungicide, insecticide, plant growth regulator and plant resistance inductor. Among these, the number of new herbicide entries was 18, accounting for nearly 33% of the total new registration in 2021.

Table 1.3-1 New registrations of pesticide technical in China by category, 2021

No.	Category	TC	TK	Number of registrations
1	Herbicide	16	2	18
2	Fungicide	9	5	14
3	Insecticide	8	4	12
4	Plant growth regulator	9	0	9
5	Plant resistance inductor	0	1	1
Total		42	12	54

Source: ICAMA & CCM

1.4 New registrations by toxicity

Toxicity of the newly registered pesticides in 2021 came at three levels, namely low-toxic, slight-toxic and moderate-toxic. Among the 54 new registrations, 40 were low-toxic, accounting for 74% of the total.

Table 1.4-1 Number of new registrations of pesticide technical in China by toxic level, 2021

Toxicity	TC	TK	Number of registrations
Low	34	6	40
Slight	6	5	11
Moderate	2	1	3
Total	42	12	54

Source: ICAMA & CCM

1.5 Active ingredients of new registrations

There were 45 active ingredients in the 54 new & full registrations of pesticide technical approvals in China in 2021, with prosulfocarb, fenpropimorph, L-glufosinate, linuron and tembotrione topping the list. Among them, certain active ingredients under herbicide technical category were registered as for export only, such as, 97% prosulfocarb TC, 98% prosulfocarb TC, 98.5% prosulfocarb TC, 97% linuron TC and 98% tembotrione TC., and under fungicide category, for example, 96% fenpropimorph TC, 97% fenpropimorph TC and 98% fenpropimorph TC, etc. Notably, there were three new & first registrations of L-glufosinate TC/TK, one of which was TK product and for export only

Table 1.5-1 Active ingredients of the new pesticide technical registrations in China, 2021

No.	Active ingredient	Number of registrations
1	Prosulfocarb	4
2	Fenpropimorph	3
3	L-Glufosinate	3
4	Linuron	2
5	Tembotrione	2
6	28-Homobrassinolide	1
7	4-Indol-3-ylbutyric acid	1
8	6-Benzylamino-purine	1
9	Bacillus amyloliquefaciens ZY-9-13	1
10	Bacillus hematocida B16	1
11	Bacillus velezensis CGMCC No.14384	1
12	Beauveria bassiana ZJU435	1
13	Bifenox	1
14	Bixafen	1
15	Bixlozone	1
16	Carfentrazone-ethyl	1
17	Chitin oligosaccharide	1
18	Cordyceps javanica lj01	1
19	Cordyceps javanica JS001	1
20	Coronatine	1
21	Decoyinine	1
22	Diafenthiuron	1
23	D-Limonene	1
24	E-8-Dodecen-1-ylacetate	1
25	Eradicane	1
26	Fenhexamid	1
27	Flumioxazin	1

No.	Active ingredient	Number of registrations
1	Prosulfocarb	4
28	Fluometuron	1
29	Gibberellic acid	1
30	Hetero-chitooligosaccharide	1
31	Isofetamid	1
32	Terbacil	1
33	Oligosaccharins	1
34	Oxyadenine	1
35	Picarbutrazox	1
36	Prohexadione calcium	1
37	Propiconazole	1
38	Pydiflumetofen	1
39	Resveratrol	1
40	Sanguinarinum sulfate	1
41	Thiorantraniliprole	1
42	Trinexapac-ethyl	1
43	Z-8-Dodecen-1-ol	1
44	Z-8-Dodecen-1-y acetate	1
45	Muscalure	1
Total		54

Source: ICAMA & CCM

2 China's new registrations of pesticide technical in 2021

2.1 Registrants of new registrations in 2021

In 2021, there were 39 registrants obtaining new registrations of pesticide technical, including 3 foreign enterprises and 36 were domestic companies. Pesticide enterprises in East China and Central China took the lead here—18 enterprises were located in Jiangsu Province (East), followed by 8 in Shandong Province (East), 5 in Henan Province (Central) and 5 in Shaanxi Province (Central).

Table 2.1-1 Regions of registrants of new pesticide technical registrations in China, 2021

No.	Region	Number of registrations	Number of active ingredients	Number of registrants
1	Jiangsu Province	18	18	18
2	Shandong Province	8	8	8
3	Henan Province	5	5	5
4	Shaanxi Province	5	5	5
5	Sichuan Province	4	4	4
6	Overseas	3	3	3
7	Hebei Province	2	2	2
8	Anhui Province	1	1	1
9	Chongqing Municipality	1	1	1
10	Guangdong Province	1	1	1
11	Heilongjiang Province	1	1	1
12	Hubei Province	1	1	1
13	Inner Mongolia Autonomous Region	1	1	1
14	Jiangxi Province	1	1	1
15	Yunnan Province	1	1	1
16	Zhejiang Province	1	1	1
Total		54	54	54

Source: ICAMA & CCM

Table 2.1-2 Registrants of newly registered pesticide technical in China, 2021

No.	Registrant (EN)	Registrant (CN)	Number of registrations
1	Zhengzhou Zhengshi Chemical Co., Ltd.	郑州郑氏化工产品有限公司	4
2	Max (Rudong) Chemicals Co., Ltd.	迈克斯（如东）化工有限公司	4
3	Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd.	杨凌翔林农业生物科技有限公司	3

No.	Registrant (EN)	Registrant (CN)	Number of registrations
4	CAC Nantong Chemical Co., Ltd.	南通泰禾化工股份有限公司	2
5	Hubei Quanfeng Biological Technology Co., Ltd.	鹤壁全丰生物科技有限公司	2
6	Jiangsu Kuaida Agrochemical Co., Ltd.	江苏快达农化股份有限公司	2
7	Jiangsu Sevencontinent Green Chemical Co., Ltd.	江苏七洲绿色化工股份有限公司	2
8	Shandong Weifang Rainbow Chemical Co., Ltd.	山东潍坊润丰化工股份有限公司	2
9	Weifang Sino-agri Union Chemical Co., Ltd.	潍坊中农联合化工有限公司	2
10	Zhongke Rongxin (Suzhou) Bio Technology Co., Ltd.	中科荣信(苏州)生物科技有限公司	2
11	ADAMA Huifeng (Jiangsu) Co., Ltd.	安道麦辉丰(江苏)有限公司	1
12	Anhui Jukai Agrochemical Co., Ltd.	安徽久易农业股份有限公司	1
13	Chengdu Newsun Crop Science Co., Ltd.	成都新朝阳作物科学股份有限公司	1
14	Chongqing Julixin Biological Engineering Co., Ltd.	重庆聚立信生物工程有限公司	1
15	FMC Corporation	美国富美实公司	1
16	Guangdong Dafeng Plant Protection Technology Co., Ltd.	广东大丰植保科技有限公司	1
17	Henan Jinpeng Chemical Co., Ltd.	河南金鹏化工有限公司	1
18	Inner Mongolia Kingbo Bitech Co., Ltd.	内蒙古清源保生物科技有限公司	1
19	Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences	江苏省农业科学院植物保护研究所	1
20	Ishihara Sangyo Kaisha Ltd.	日本石原产业株式会社	1
21	Jiangsu Changqing Agrochemical Co., Ltd.	江苏长青农化股份有限公司	1
22	Jiangsu Laike Crop Protection Co., Ltd.	江苏莱科作物保护有限公司	1
23	Jiangxi New Reyphon Biochemical Co., Ltd.	江西新瑞丰生化股份有限公司	1
24	Lianyungang Niutaike Chemical Co., Ltd.	连云港纽泰科化工有限公司	1
25	Lier Chemical Co., Ltd.	利尔化学股份有限公司	1
26	Nippon Soda Co., Ltd.	日本曹达株式会社	1
27	Northeast Agricultural University	东北农业大学	1
28	Oriental (Luzhou) Agrochemicals Co., Ltd.	泸州东方农化有限公司	1
29	Shaanxi Hengrun Chemical Industry Co., Ltd.	陕西恒润化学工业有限公司	1
30	Shaanxi Xiannong Biological Science and Technology Co., Ltd.	陕西先农生物科技有限公司	1
31	Shandong Hailir Chemical Co., Ltd.	山东海利尔化工有限公司	1

No.	Registrant (EN)	Registrant (CN)	Number of registrations
32	Shandong Luba Chemical Co., Ltd.	山东绿霸化工股份有限公司	1
33	Sichuan Baishi Dongwang Bio Technology Co., Ltd.	四川百事东旺生物科技有限公司	1
34	Syngenta Nantong Crop Protection Co., Ltd.	先正达南通作物保护有限公司	1
35	Weifang Huanuo Biological Technology Co., Ltd.	潍坊华诺生物科技有限公司	1
36	Wuhan Kono Bio Technology Co., Ltd.	武汉科诺生物科技股份有限公司	1
37	Yucheng United Linong Biotechnology Co., Ltd.	禹城联合利农生物科技有限公司	1
38	Yunnan University	云南大学	1
39	Zhejiang Udragon Crop Science Co., Ltd.	浙江宇龙生物科技股份有限公司	1
Total			54

Source: ICAMA & CCM

Table 2.1-3 New registrations of pesticide technical held by Zhengzhou Zhengshi Chemical Co., Ltd., 2021

No.	Registration Code	Active ingredient	Content	Toxicity	Category
1	PD20210997	Prohexadione calcium	92% TC	Low	Plant growth regulator
2	PD20211121	28-Homobrassinolide	90% TC	Low	Plant growth regulator
3	PD20211122	Gibberellic acid	90% TC	Low	Plant growth regulator
4	PD20211691	Oxyadenine	98% TC	Low	Plant growth regulator

Source: ICAMA & CCM

Table 2.1-4 New registrations of pesticide technical held by Max (Rudong) Chemicals Co., Ltd., 2021

No.	Registration code	Active ingredient	Content	Toxicity	Category
1	EX20210043	Trinexapac-ethyl	97% TC	Low	Plant growth regulator
2	EX20210044	Flumioxazin	98% TC	Low	Herbicide
3	EX20210114	Linuron	97% TC	Low	Herbicide
4	EX20210112	Terbacil	95% TC	Low	Herbicide

Source: ICAMA & CCM

Table 2.1-5 New registrations of pesticide technical held by Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd., 2021

No.	Registration code	Active ingredient	Content	Toxicity	Category
1	PD20210181	Z-8-Dodecen-1-ol	97% TC	Low	Insecticide
2	PD20210182	Z-8-Dodecen-1-y acetate	97% TC	Low	Insecticide
3	PD20210184	E-8-Dodecen-1-ylacetate	97% TC	Low	Insecticide

Source: ICAMA & CCM

2.2 Details of new registrations held by domestic & foreign enterprises

Obtained by 36 domestic enterprises, there were 51 new registrations of pesticide technical, accounting for 94% of the total new registrations of pesticide technical in 2021; the rest 3 registrations were TC products of low toxicity, held by 3 foreign enterprises respectively.

Table 2.2-1 New registrations of pesticide technical held by domestic enterprises in China, 2021

No.	Registrant	Registration code	Active ingredient	Content	Type
1	ADAMA Huifeng (Jiangsu) Co., Ltd.	EX20210024	Bifenox	97%	TC
2	Anhui Jukai Agrochemical Co., Ltd.	PD20212923	Tembotrione	95%	TC
3	CAC Nantong Chemical Co., Ltd.	EX20210093	Eradicane	99%	TC
		EX20210048	Prosulfocarb	98%	TC
4	Chengdu Newsun Crop Science Co., Ltd.	PD20211351	Coronatine	98%	TC
5	Chongqing Julixin Biological Engineering Co., Ltd.	PD20212925	Beauveria bassiana ZJU435	80 billion spore/g	TK
6	Guangdong Dafeng Plant Protection Technology Co., Ltd.	PD20211353	Cordyceps javanica lj01	100 billion spore/g	TK
7	Henan Jinpeng Chemical Co., Ltd.	EX20210164	Fenpropimorph	97%	TC
8	Hubei Quanfeng Biological Technology Co., Ltd.	PD20210832	4-Indol-3-ylbutyric acid	98%	TC
		PD20210001	Muscalure	90%	TC
9	Inner Mongolia Kingbo Biotech Co., Ltd.	PD20212931	Resveratrol	10%	TK
10	Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences	PD20211356	Cordyceps javanica JS001	50 billion spore/g	TK
11	Jiangsu Changqing Agrochemical Co., Ltd.	PD20210999	Diafenthiuron	95%	TC
12	Jiangsu Kuaida Agrochemical Co., Ltd.	EX20210113	Linuron	97%	TC
		EX20210102	Fluometuron	97%	TC
13	Jiangsu Laike Crop Protection Co., Ltd.	EX20210158	Fenpropimorph	96%	TC
14	Jiangsu Sevencontinent Green Chemical Co., Ltd.	EX20210100	Propiconazole	50%	TK
		PD20212914	L-Glufosinate	90%	TC

No.	Registrant	Registration code	Active ingredient	Content	Type
15	Jiangxi New Reyphon Biochemical Co., Ltd.	PD20212313	6-Benzylamino-purine	98%	TC
16	Lianyungang Niutaike Chemical Co., Ltd.	EX20210046	Prosulfocarb	97%	TC
17	Lier Chemical Co., Ltd.	EX20210143	L-Glufosinate	46%	TK
18	Max (Rudong) Chemicals Co., Ltd.	EX20210112	Terbacil	95%	TC
		EX20210114	Linuron	97%	TC
		EX20210044	Flumioxazin	98%	TC
		EX20210043	Trinexapac-ethyl	97%	TC
19	Northeast Agricultural University	PD20212929	Decoyinine	94%	TC
20	Oriental (Luzhou) Agrochemicals Co., Ltd.	PD20210996	Carfentrazone-ethyl	53%	TK
21	Shaanxi Hengrun Chemical Industry Co., Ltd.	EX20210157	Fenhexamid	98%	TC
22	Shaanxi Xiannong Biological Science and Technology Co., Ltd.	PD20211352	Sanguinarinum sulfate	40%	TK
23	Shandong Hailir Chemical Co., Ltd.	EX20210144	Tembotrione	98%	TC
24	Shandong Luba Chemical Co., Ltd.	PD20210183	L-Glufosinate	90%	TC
25	Shandong Weifang Rainbow Chemical Co., Ltd.	EX20210145	Fenpropimorph	98%	TC
		EX20210101	Bixafen	98%	TC
26	Sichuan Baishi Dongwang Bio Technology Co., Ltd.	PD20211348	Bacillus velezensis CGMCC No.14384	100 billion CFU/g	TK
27	Syngenta Nantong Crop Protection Co., Ltd.	PD20212312	Pydiflumetofen	98%	TC
28	Weifang Huanuo Biological Technology Co., Ltd.	PD20210998	Oligosaccharins	85%	TK
29	Weifang Sino-agri Union Chemical Co., Ltd.	EX20210047	Prosulfocarb	99%	TC
		EX20210045	Prosulfocarb	98%	TC
30	Wuhan Kono Bio Technology Co., Ltd.	PD20211346	Bacillus amyloliquefaciens ZY-9-13	100 billion CFU/g	TK
31	Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd.	PD20210184	E-8-Dodecen-1-ylacetate	97%	TC
		PD20210182	Z-8-Dodecen-1-y acetate	97%	TC
		PD20210181	Z-8-Dodecen-1-ol	97%	TC
32	Yucheng United Linong Biotechnology Co., Ltd.	PD20211690	D-Limonene	93%	TC
33	Yunnan University	PD20211349	Bacillus hematoxida B16	10 billion CFU/g	TK
34	Zhejiang Udragon Crop Science Co., Ltd.	PD20211355	Thiorantraniliprole	95%	TC

No.	Registrant	Registration code	Active ingredient	Content	Type
35	Zhengzhou Zhengshi Chemical Co., Ltd.	PD20211691	Oxyadenine	98%	TC
		PD20211122	Gibberellic acid	90%	TC
		PD20211121	28-Homobrassinolide	90%	TC
		PD20210997	Prohexadione calcium	92%	TC
36	Zhongke Rongxin (Suzhou) Bio Technology Co., Ltd.	PD20211354	Hetero-chitooligosaccharide	95%	TC
		PD20211347	Chitin oligosaccharide	95%	TC

Source: ICAMA & CCM

Table 2.2-2 New registrations of pesticide technical held by foreign enterprises in China, 2021

No.	Registrant	Registration code	Active ingredient	Content	Type
1	FMC Corporation	PD20211345	Bixlozone	96%	TC
2	Nippon Soda Co., Ltd.	PD20211350	Picarbutrazox	97%	TC
3	Ishihara Sangyo Kaisha Ltd.	PD20212930	Isofetamid	95%	TC

Source: ICAMA & CCM

3 China's first registrations of active ingredient in 2021

3.1 Newly registered active ingredients of pesticide technical held by foreign enterprises

In 2021, there were 3 foreign enterprises gaining new registration in China, all the active ingredients of which were first registrations in China. Among them, one herbicide TC was applied by the US-based FMC Corporation, while two fungicide TC were registered by Japan-based enterprises, i.e. Nippon Soda Co., Ltd. and Ishihara Sangyo Kaisha Ltd.

Table 3.1-1 China's first registration of new herbicide active ingredient held by foreign enterprise, 2021

Registration code	Active ingredient	Content	Type	Date of first approval	Expiry date	Registrant	Country
PD20211345	Bixlozone	96%	TC	2021/9/3	2026/9/2	FMC Corporation	the US

Source: ICAMA & CCM

Table 3.1-2 China's first registration of new fungide active ingredient held by foreign enterprises, 2021

Registration code	Active ingredient	Content	Type	Date of first approval	Expiry date	Registrant	Country
PD20211350	Picarbutrazox	97%	TC	2021/9/3	2026/9/2	Nippon Soda Co., Ltd.	Japan
PD20212930	Isofetamid	95%	TC	2021/12/30	2026/12/29	Ishihara Sangyo Kaisha Ltd.	Japan

Source: ICAMA & CCM

3.2 Newly registered active ingredients of pesticide technical held by domestic enterprises

Among 23 new active ingredient registrations approved in 2021, there were 21 domestic enterprises, who engaged in applying for 21 new & first active ingredients newly registered in China.

In herbicide category, there were 3 new & first herbicide active ingredients, registered with 4 pesticides and obtained by 4 domestic companies, namely, bifenox 97%, flumioxazin 98%, tembotrione 95% and tembotrione 98%—all of these were TCs.

In insecticide category, there were 6 new & first active ingredients, accounting for 26.1% of all 23 new & first registered ones in 2021—4 TK products (mainly biological pesticides) and 2 TC products (low toxic).

In fungicide category, there were 9 new & first active ingredients, registered with 11 pesticides and obtained by 10 domestic companies. Thereinto, both bixafen 98% TC and fenpropimorph 98% TC are acquired by Shandong Weifang Rainbow Chemical Co., Ltd.

Table 3.2-1 China's newly registered herbicide active ingredient held by domestic enterprise, 2021

Registration Code	Active ingredient	Content	Type	Toxicity	Date of first approval	Expiry date	Registrant
PD20212923	Tembotrione	95%	TC	Low	2021/12/30	2026/12/29	Anhui Jukai Agrochemical Co., Ltd.
EX20210024	Bifenox	97%	TC	Mild	2021/6/11	2026/6/10	ADAMA Huifeng (Jiangsu) Co., Ltd.
EX20210044	Flumioxazin	98%	TC	Low	2021/7/2	2026/7/1	Max (Rudong) Chemicals Co., Ltd.
EX20210144	Tembotrione	98%	TC	Mild	2021/11/10	2026/11/9	Shandong Hailir Chemical Co., Ltd.

Source: ICAMA & CCM

Table 3.2-2 China's newly registered insecticide active ingredient held by domestic enterprise, 2021

Registration code	Active ingredient	Content	Type	Toxicity	Date of first approval	Expiry date	Registrant
PD20211352	Sanguinarinum sulfate	40%	TK	Moderate	2021/9/3	2026/9/2	Shaanxi Xiannong Biological Science and Technology Co., Ltd.
PD20211353	Cordyceps javanica lj01	100 billion spore/g	TK	Low	2021/9/3	2026/9/2	Guangdong Dafeng Plant Protection Technology Co., Ltd.
PD20211354	Hetero-chitooligosaccharide	95%	TC	Low	2021/9/3	2026/9/2	Zhongke Rongxin (Suzhou) Bio Technology Co., Ltd.
PD20211355	Thiorantraniliprole	95%	TC	Low	2021/9/3	2026/9/2	Zhejiang Udragon Crop Science Co., Ltd.
PD20211356	Cordyceps javanica JS001	50 billion spore/g	TK	Mild	2021/9/3	2026/9/2	Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences
PD20212925	Beauveria bassiana ZJU435	80 billion spore/g	TK	Mild	2021/12/30	2026/12/29	Chongqing Julixin Biological Engineering Co., Ltd.

Source: ICAMA & CCM

Table 3.2-3 China's newly registered fungicide active ingredient held by domestic enterprise, 2021

Registration code	Active ingredient	Content	Type	Toxicity	Date of first approval	Expiry date	Registrant
PD20211346	Bacillus amyloliquefaciens ZY-9-13	100 billion CFU/g	TK	Low	2021/9/3	2026/9/2	Wuhan Kono Bio Technology Co., Ltd.
PD20211347	Chitin oligosaccharide	95%	TC	Mild	2021/9/3	2026/9/2	Zhongke Rongxin (Suzhou) Bio Technology Co., Ltd.
PD20211348	Bacillus velezensis CGMCC No.14384	100 billion CFU/g	TK	Mild	2021/9/3	2026/9/2	Sichuan Baishi Dongwang Bio Technology Co., Ltd.
PD20211349	Bacillus hematocida B16	10 billion CFU/g	TK	Mild	2021/9/3	2026/9/2	Yunnan University
PD20212312	Pydiflumetofen	98%	TC	Mild	2021/10/20	2026/10/19	Syngenta Nantong Crop Protection Co., Ltd.
PD20212931	Resveratrol	10%	TK	Low	2021/12/30	2026/12/29	Inner Mongolia Kingbo Biotech Co., Ltd.
EX20210101	Bixafen	98%	TC	Mild	2021/9/29	2026/9/28	Shandong Weifang Rainbow Chemical Co., Ltd.
EX20210145	Fenpropimorph	98%	TC	Low	2021/11/10	2026/11/9	Shandong Weifang Rainbow Chemical Co., Ltd.
EX20210157	Fenhexamid	98%	TC	Low	2021/12/16	2026/12/15	Shaanxi Hengrun Chemical Industry Co., Ltd.
EX20210158	Fenpropimorph	96%	TC	Low	2021/12/16	2026/12/15	Jiangsu Laike Crop Protection Co., Ltd.

Registration code	Active ingredient	Content	Type	Toxicity	Date of first approval	Expiry date	Registrant
EX20210164	Fenpropimorph	97%	TC	Low	2021/12/16	2026/12/15	Henan Jinpeng Chemical Co., Ltd.

Source: ICAMA & CCM

Table 3.2-4 China's other newly registered active ingredients held by domestic enterprise, 2021

Registration code	Active ingredient	Content	Type	Toxicity	Date of first approval	Expiry date	Registrant	Category
PD20211351	Coronatine	98%	TC	Low	2021/9/3	2026/9/2	Chengdu Newsun Crop Science Co., Ltd.	Plant growth regulator
PD20212929	Decoyinine	94%	TC	Mild	2021/12/30	2026/12/29	Northeast Agricultural University	Plant growth regulator

Source: ICAMA & CCM

3.3 First registrations of active ingredient by category

In 2021, among 45 active ingredients registered in China, 4 were firstly registered with herbicide technicals, 11 with fungicide technicals, 6 with insecticide technicals and 2 with plant growth regulators.

Table 3.3-1 Number of first registration of active ingredient by category, 2021

No.	Category	Number of new active ingredient		Number of registration
		TC	TK	
1	Herbicide	4	0	5
2	Fungicide	7	4	13
3	Insecticide	2	4	6
4	Plant growth regulator	2	0	2
Total		15	8	26

Source: ICAMA & CCM

4 China's new registrations of herbicide technical in 2021

4.1 New herbicide registrations, registrants and active ingredients, 2019–2021

Among the total 54 new registrations in China in 2021, there were 18 (=33% of total) under herbicide technical category. These new registrations of herbicide technical belonged to 13 registrants, representing 11 herbicide active ingredients.

Table 4.1-1 New registrations of herbicide technical in China, 2016–2021

Item	2019	2020	2021
Number of registrations	4	6	18
Number of registrants	3	5	13
Active ingredients	4	6	11

Source: ICAMA & CCM

4.2 Details of new registrations of herbicide technical in China

In 2021, there were 18 new registrations of herbicide technical involving 11 active ingredients held by 13 registrants in China. 13 export-only herbicides equate to 72% of the 18 registered ones.

Table 4.2-1 Details of new registrations of herbicide technical in China, 2021

No.	Registration code	Active ingredient	Content	Type	Toxicity	Expiry date	Registrant
1	PD20210183	L-Glufosinate	90%	TC	Moderate	2026/3/10	Shandong Luba Chemical Co., Ltd.
2	PD20210996	Carfentrazone-ethyl	53%	TK	Low	2026/7/1	Oriental (Luzhou) Agrochemicals Co., Ltd.
3	PD20211345	Bixlozone	96%	TC	Low	2026/9/2	FMC Corporation
4	PD20212914	L-Glufosinate	90%	TC	Low	2026/12/15	Jiangsu Sevencontinent Green Chemical Co., Ltd.
5	PD20212923	Tembotrione	95%	TC	Low	2026/12/29	Anhui Jukai Agrochemical Co., Ltd.
6	EX20210024	Bifenox	97%	TC	Mild	2026/6/10	ADAMA Huifeng (Jiangsu) Co., Ltd.
7	EX20210044	Flumioxazin	98%	TC	Low	2026/7/1	Max (Rudong) Chemicals Co., Ltd.
8	EX20210045	Prosulfocarb	98%	TC	Low	2026/7/1	Weifang Sino-agri Union Chemical Co., Ltd.
9	EX20210046	Prosulfocarb	97%	TC	Low	2026/7/1	Lianyungang Niutaike Chemical Co., Ltd.
10	EX20210047	Prosulfocarb	99%	TC	Low	2026/7/1	Weifang Sino-agri Union Chemical Co., Ltd.
11	EX20210048	Prosulfocarb	98%	TC	Low	2026/7/1	CAC Nantong Chemical Co., Ltd.
12	EX20210093	Eradicane	99%	TC	Low	2026/8/24	CAC Nantong Chemical Co., Ltd.
13	EX20210102	Fluometuron	97%	TC	Low	2026/9/28	Jiangsu Kuaida Agrochemical Co., Ltd.

No.	Registration code	Active ingredient	Content	Type	Toxicity	Expiry date	Registrant
14	EX20210112	Terbacil	95%	TC	Low	2026/10/19	Max (Rudong) Chemicals Co., Ltd.
15	EX20210113	Linuron	97%	TC	Low	2026/10/19	Jiangsu Kuaida Agrochemical Co., Ltd.
16	EX20210114	Linuron	97%	TC	Low	2026/10/19	Max (Rudong) Chemicals Co., Ltd.
17	EX20210143	L-Glufosinate	46%	TK	Low	2026/11/9	Lier Chemical Co., Ltd.
18	EX20210144	Tembotrione	98%	TC	Mild	2026/11/9	Shandong Hailir Chemical Co., Ltd.

Source: ICAMA & CCM

5 China's new registrations of insecticide technical in 2021

5.1 New insecticide registrations, registrants and active ingredients, 2019–2021

In 2021, there were 12 new registrations of insecticide technical in China, accounting for 22% of the total 54 new registrations. These new insecticidal registrations belonged to 10 registrants, involving 12 active ingredients.

Table 5.1-1 Number of new registrations, registrants and active ingredients, 2016–2021

Year	Item	Insecticide for agricultural use	Insecticide for sanitary use	Total
2019	Active ingredient	4	0	4
	Number of registrations	4	0	4
	Number of registrants	4	0	4
2020	Active ingredient	2	0	2
	Number of registrations	2	0	2
	Number of registrants	2	0	2
2021	Active ingredient	11	1	12
	Number of registrations	11	1	12
	Number of registrants	9	1	10

Source: ICAMA & CCM

5.2 Details of new registrations of insecticide technical in China

In 2021, there were 12 new registrations of insecticide technical involving 12 active ingredients held by 10 registrants in China. By type, all of 4 TK products were biological insecticides, namely, *Beauveria bassiana* ZJU435, Sanguinarinum sulfate, *Cordyceps javanica* lj01, *Cordyceps javanica* JS001.

Table 5.2-1 Details of new registrations of insecticide technical in China, 2021

No.	Registration code	Active ingredient	Content	Type	Toxicity	Expiry date	Registrant
1	PD20210001	Muscalure	90%	TC	Low	2026/1/13	Hubei Quanfeng Biological Technology Co., Ltd.
2	PD20210184	E-8-Dodecen-1-ylacetate	97%	TC	Low	2026/3/10	Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd.
3	PD20210182	Z-8-Dodecen-1-yl acetate	97%	TC	Low	2026/3/10	Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd.
4	PD20210181	Z-8-Dodecen-1-ol	97%	TC	Low	2026/3/10	Yangling Xianglin Agricultural and Biotechnology Science Co., Ltd.
5	PD20210999	Diafenthiuron	95%	TC	Moderate	2026/7/1	Jiangsu Changqing Agrochemical Co., Ltd.
6	PD20211352	Sanguinarinum sulfate	40%	TK	Moderate	2026/9/2	Shaanxi Xiannong Biological Science and Technology Co., Ltd.

No.	Registration code	Active ingredient	Content	Type	Toxicity	Expiry date	Registrant
7	PD20211353	Cordyceps javanica lj01	100 billion spore/g	TK	Low	2026/9/2	Guangdong Dafeng Plant Protection Technology Co., Ltd.
8	PD20211356	Cordyceps javanica JS001	50 billion spore/g	TK	Mild	2026/9/2	Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences
9	PD20211355	Thiorantraniliprole	95%	TC	Low	2026/9/2	Zhejiang Udragon Crop Science Co., Ltd.
10	PD20211354	Hetero-chitooligosaccharide	95%	TC	Low	2026/9/2	Zhongke Rongxin (Suzhou) Bio Technology Co., Ltd.
11	PD20211690	D-Limonene	93%	TC	Low	2026/9/28	Yucheng United Linong Biotechnology Co., Ltd.
12	PD20212925	Beauveria bassiana ZJU435	80 billion spore/g	TK	Mild	2026/12/29	Chongqing Julixin Biological Engineering Co., Ltd.

Source: ICAMA & CCM

6 China's new registrations of fungicide technical in 2021

6.1 New fungicide registrations, registrants and active ingredients, 2019–2021

In 2021, there were 14 new registrations of fungicide technical in China, accounting for 26% of the total pesticide technical registrations. By type, 9 are TC products and 5 are TK products.

These new registrations belonged to 13 registrants with 12 fungicide active ingredients.

Table 6.1-1 Number of new registrations, registrants and active ingredients, 2016–2021

Item	2019	2020	2021
Number of registrations	15	4	14
Number of registrants	15	4	13
Active ingredient	14	4	12

Source: ICAMA & CCM

6.2 Details of new registrations of fungicide technical in China

In 2021, there were 12 active ingredients represented by 14 new fungicide technical registrations in China. Notably, 4 were biological fungicides (all TK), namely, *Bacillus hematocida* B16, *Bacillus velezensis* CGMCC No. 14384, *Bacillus amyloliquefaciens* ZY-9-13, and Resveratrol; rest of TK products was for export only, i.e., 50% propiconazole TK.

Table 6.2-1 Details of new registrations of fungicide technical in China, 2021

No.	Registration Code	Active ingredient	Content	Type	Toxicity	Expiry date	Registrant
1	PD20211350	Picarbutrazox	97%	TC	Low	2026/9/2	Nippon Soda Co., Ltd.
2	PD20211349	<i>Bacillus hematocida</i> B16	10 billion CFU/g	TK	Mild	2026/9/2	Yunnan University
3	PD20211348	<i>Bacillus velezensis</i> CGMCC No. 14384	100 billion CFU/g	TK	Mild	2026/9/2	Sichuan Baishi Dongwang Bio Technology Co., Ltd.
4	PD20211347	Chitin oligosaccharide	95%	TC	Mild	2026/9/2	Zhongke Rongxin (Suzhou) Bio Technology Co., Ltd.
5	PD20211346	<i>Bacillus amyloliquefaciens</i> ZY-9-13	100 billion CFU/g	TK	Low	2026/9/2	Wuhan Kono Bio Technology Co., Ltd.
6	PD20212312	Pydiflumetofen	98%	TC	Mild	2026/10/19	Syngenta Nantong Crop Protection Co., Ltd.
7	PD20212931	Resveratrol	10%	TK	Low	2026/12/29	Inner Mongolia Kingbo Bitech Co., Ltd.
8	PD20212930	Isofetamid	95%	TC	Low	2026/12/29	Ishihara Sangyo Kaisha Ltd.
9	EX20210101	Bixafen	98%	TC	Mild	2026/9/28	Shandong Weifang Rainbow Chemical Co., Ltd.
10	EX20210100	Propiconazole	50%	TK	Low	2026/9/28	Jiangsu Sevencontinent Green Chemical Co., Ltd.
11	EX20210145	Fenpropimorph	98%	TC	Low	2026/11/9	Shandong Weifang Rainbow

No.	Registration Code	Active ingredient	Content	Type	Toxicity	Expiry date	Registrant
							Chemical Co., Ltd.
12	EX20210164	Fenpropimorph	97%	TC	Low	2026/12/15	Henan Jinpeng Chemical Co., Ltd.
13	EX20210158	Fenpropimorph	96%	TC	Low	2026/12/15	Jiangsu Laike Crop Protection Co., Ltd.
14	EX20210157	Fenhexamid	98%	TC	Low	2026/12/15	Shaanxi Hengrun Chemical Industry Co., Ltd.

Source: ICAMA & CCM

7 China's new export-only registrations of pesticide technical in 2021

7.1 Registrants, active ingredients and toxicity of new export-only registrations

For years, the Ministry of Agriculture and Rural Affairs of P. R. China has issued a number of policies, including *Announcement No. 269* in June 2020 and *Explanations for Announcement No. 269* in Oct. 2020, and stipulated that approvals would be given to pesticide registrations for export only, the involved products of which are strictly forbidden for use in China. In 2021, 20 new registrations of TC&TK products were registered on this ground, taking up 37% of the total approvals in 2021.

Results showed that Chinese holders of new registrations of pesticide technical are located across five regions—7 of them from Jiangsu Province holding 12 registrations, 3 from Shandong Province holding 5 registrations, and the others from three regions, namely, Shaanxi Province, Henan Province and Sichuan Province, holding only one export-only TC/TK registration respectively.

Calculated by type, there were 18 new technical materials (TC) and 2 new technical concentrates (TK). By category, most of these new export-only registrations of pesticide technical in China in 2021 were herbicides, followed by fungicides and plant growth regulator, with no insecticide products. In 2021, there were 14 active ingredients out of these 20 new export-only TC&TK registrations, top 3 of which were prosulfocarb, fenpropimorph and linuron.

Table 7.1-1 Regions of registrants holding new export-only registrations of pesticide technical in China, 2021

No.	Region	Number of registrants	Number of export-only registrations	Number of active ingredients
1	Jiangsu Province	7	12	12
2	Shandong Province	3	5	5
3	Sichuan Province	1	1	1
4	Shaanxi Province	1	1	1
5	Henan Province	1	1	1
Total		13	20	20

Source: ICAMA & CCM

Table 7.1-2 New export-only (TC&TK) registrations by category, 2021

Category	TC	TK	Number of export-only registrations
Herbicide	12	1	13
Insecticide	0	0	0
Fungicide	5	1	6
Plant growth regulator	1	0	1
Total	18	2	20

Source: ICAMA & CCM

Table 7.1-3 New export-only (TC&TK) registrations by toxic level, 2021

Toxicity	TC	TK	Number of export-only registration
Low	16	1	17
Slight	0	0	0
Moderate	2	1	3
Total	18	2	20

Source: ICAMA & CCM

Table 7.1-4 Active ingredients in new export-only registrations of pesticide technical in China, 2021

No.	Active ingredient	Number of export-only registrations
1	Prosulfocarb	4
2	Fenpropimorph	3
3	Linuron	2
4	Bifenox	1
5	Bixafen	1
6	Eradicane	1
7	Fenhexamid	1
8	Flumioxazin	1
9	Fluometuron	1
10	L-Glufosinate	1
11	Terbacil	1
12	Propiconazole	1
13	Tembotrione	1
14	Trinexapac-ethyl	1
Total		20

Source: ICAMA & CCM

7.2 Details of new export-only registrations of pesticide technical

In 2021, there were 13 registrants holding 14 different active ingredients. Thereinto, Max (Rudong) Chemicals Co., Ltd. had 4 new export-only TC&TK registrations (three of herbicides and one of plant growth regulator), while Shandong Weifang Rainbow Chemical Co., Ltd. registered for 2 fungicides, with 2 different active ingredients, namely, 98% bixafen and 98% fenpropimorph.

Table 7.2-1 Registrants of new export-only registrations of pesticide technical in China, 2021

No.	Registrant	Number of registrations
1	Max (Rudong) Chemicals Co., Ltd.	4
2	CAC Nantong Chemical Co., Ltd.	2
3	Jiangsu Kuaida Agrochemical Co., Ltd.	2
4	Shandong Weifang Rainbow Chemical Co., Ltd.	2
5	Weifang Sino-agri Union Chemical Co., Ltd.	2
6	ADAMA Huifeng (Jiangsu) Co., Ltd.	1
7	Henan Jipeng Chemical Co., Ltd.	1
8	Jiangsu Laike Crop Protection Co., Ltd.	1
9	Jiangsu Sevencontinent Green Chemical Co., Ltd.	1
10	Lianyungang Niutaike Chemical Co., Ltd.	1
11	Lier Chemical Co., Ltd.	1
12	Shaanxi Hengrun Chemical Industry Co., Ltd.	1
13	Shandong Hailir Chemical Co., Ltd.	1
Total		20

Source: ICAMA & CCM

Table 7.2-2 New registrations of herbicide technical for export only in China, 2021

No.	Registrant	Registration code	Active ingredient	Content	Type	Expiry date	Toxicity
1	ADAMA Huifeng (Jiangsu) Co., Ltd.	EX20210024	Bifenox	97%	TC	2026/6/10	Low
2	CAC Nantong Chemical Co., Ltd.	EX20210048	Prosulfocarb	98%	TC	2026/7/1	Low
		EX20210093	Eradicane	99%	TC	2026/8/24	Low
3	Jiangsu Kuaida Agrochemical Co., Ltd.	EX20210102	Fluometuron	97%	TC	2026/9/28	Low
		EX20210113	Linuron	97%	TC	2026/10/19	Low
4	Lianyungang Niutaike Chemical Co., Ltd.	EX20210046	Prosulfocarb	97%	TC	2026/7/1	Low
5	Lier Chemical Co., Ltd.	EX20210143	L-Glufosinate	46%	TK	2026/11/9	Low
6	Max (Rudong) Chemicals Co., Ltd.	EX20210044	Flumioxazin	98%	TC	2026/7/1	Mild
		EX20210112	Terbacil	95%	TC	2026/10/19	Low
		EX20210114	Linuron	97%	TC	2026/10/19	Low

No.	Registrant	Registration code	Active ingredient	Content	Type	Expiry date	Toxicity
7	Shandong Hailir Chemical Co., Ltd.	EX20210144	Tembotrione	98%	TC	2026/11/9	Low
8	Weifang Sino-agri Union Chemical Co., Ltd.	EX20210045	Prosulfocarb	98%	TC	2026/7/1	Low
		EX20210047	Prosulfocarb	99%	TC	2026/7/1	Low

Source: ICAMA & CCM

Table 7.2-3 New registrations of fungicide technical for export only in China, 2021

No.	Registrant	Registration code	Active ingredient	Content	Type	Expiry date	Toxicity
1	Henan Jinpeng Chemical Co., Ltd.	EX20210164	Fenpropimorph	97%	TC	2026/12/15	Low
2	Jiangsu Laike Crop Protection Co., Ltd.	EX20210158	Fenpropimorph	96%	TC	2026/12/15	Low
3	Jiangsu Sevencontinent Green Chemical Co., Ltd.	EX20210100	Propiconazole	50%	TK	2026/9/28	Mild
4	Shandong Weifang Rainbow Chemical Co., Ltd.	EX20210101	Bixafen	98%	TC	2026/9/28	Low
		EX20210145	Fenpropimorph	98%	TC	2026/11/9	Mild

Source: ICAMA & CCM

Table 7.2-4 New export-only registrations of other pesticide technicals in China, 2021

No.	Registrant	Registration code	Active ingredient	Content	Type	Expiry date	Toxicity	Category
1	Max (Rudong) Chemicals Co., Ltd.	EX20210043	Trinexapac-ethyl	97%	TC	2026/7/1	Low	Plant growth regulator

Source: ICAMA & CCM

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