

# Insecticides China Monthly Report 202206

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## Headline

Jiangsu Xinnong, a subsidiary of Zhejiang Xinnong, has finished the construction of 3,000 t/a chlorpyrifos-methyl TC production lines and put them into trial operation as of early June.

Inner Mongolia Biok has planned to expand its production capacity of pesticides, which includes insecticides 100 t/a emamectin benzoate TC, 150 t/a lufenuron TC, 150 t/a teflubenzuron TC and 400 t/a chlorantraniliprole TC.

Zhejiang Heben has called off the plan to construct capacity for propargite TC, hexythiazox TC and some herbicide TC products in its Sichuan production base.

On 23 June, local authorities made public the information on Jiangxi Huihe's 3,000 t/a high-efficacy pesticide project before the company submits related documents for government approval. Jiangxi Huihe has planned to transform its existing 2,075 t/a prochloraz TC production line into lines for 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC and etc.

On 24 June, Nantong Jinling's 36,610 t/a pesticide formulations expansion project was approved by local authorities. The project can well match up with other pesticide technical producers in the same chemical park. Meanwhile, the company will slash its total pollutant emission with this project, through upgrading production process and pollution treatment facilities.

In early June, China's insecticide market saw sluggish demand and prices of most insecticides TC went down. In general, demand for insecticides has kept weak in H1 2022, mainly due to: weak end-user demand pushed the market to consume inventory; COVID-19 resurgence in China in H1 hindered logistics, which exacerbated the downturn in insecticide market.

In late May, Development and Reform Commission of Hunan Province issued the Hunan Provincial Implementation Plan for Treating Pollutions from Chemical Industry along the Yangtze River Economic Belt During the 14th Five-Year Plan Period. The implementation plan specifies major targets and key tasks, which includes optimising distribution of chemical industry and resolutely containing irrational chemical project initiatives in the province.

In late May, a video conference on the occurrence trend forecast of diseases and pests on early rice in 2022 was held by the NATESC. It is expected that in general, there will be a relatively heavy occurrence of diseases and pests on early rice, covering an area of 16.67 million ha (250 million mu) in total, more severe than last year.

On 2 June, 2022, ICAMA released a batch of newly-registered pesticides, which include 15 insecticide products, of which 5 are hygienic insecticides.

According to export data from Tranalysis, in Q1 2022, China exported 2,680.58 tonnes (actual volume) or 1,990.81 tonnes (converted to 100% AI) imidacloprid products to 27 major destinations including the US, India, Russia and Vietnam.







### Editor's note

In early June, CCM learned from Inner Mongolia Biok that it had planned to expand its production capacity of pesticides, which includes insecticides 100 t/a emamectin benzoate TC, 150 t/a lufenuron TC, 150 t/a teflubenzuron TC and 400 t/a chlorantraniliprole TC. And on 23 June, information on Jiangxi Huihe's 3,000 t/a high-efficacy pesticide project was made public. Jiangxi Huihe has planned to transform its existing 2,075 t/a prochloraz TC production line into lines for 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC and etc.

As for market analysis, China's insecticide market saw sluggish demand and prices of most insecticides TC went down in early June. In general, demand for insecticides has kept weak in H1 2022, mainly because: weak end-user demand pushed the market to consume inventory; COVID-19 resurgence in China in H1 hindered logistics, which exacerbated the downturn in insecticide market.

For latest policy, in late May, Development and Reform Commission of Hunan Province issued the *Hunan Provincial Implementation Plan for Treating Pollutions from Chemical Industry along the Yangtze River Economic Belt During the 14th Five-Year Plan Period*. The plan specifies major targets and key tasks, which includes optimising distribution of chemical industry and resolutely containing irrational chemical project initiatives in the province.

In terms of pesticide registration, on 2 June, 2022, ICAMA released a batch of newly-registered pesticides, which include 15 insecticide products, of which 5 are hygienic insecticides.

*The USD/CNY exchange rate in this newsletter is USD1.00 = CNY6.6651 on 1 June, 2022, sourced from the People's Bank of China. All the prices mentioned in this newsletter will include the VAT, unless otherwise specified.*







## Company dynamics

### Jiangsu Xinnong starts trial run of 3kt/a chlorpyrifos-methyl TC lines

Summary: Jiangsu Xinnong, a subsidiary of Zhejiang Xinnong, has finished the construction of 3,000 t/a chlorpyrifos-methyl TC production lines and put them into trial operation as of early June.

In late May, CCM learned from Zhejiang Xinnong Chemical Co., Ltd. (Zhejiang Xinnong) that its wholly-owned subsidiary Jiangsu Xinnong Chemical Co., Ltd. (Jiangsu Xinnong)'s 3,000 t/a chlorpyrifos-methyl TC project had completed construction and come into trial production. Before the trial run, Jiangsu Xinnong had already acquired the licences needed for chlorpyrifos-methyl TC production and sale.

Similar with the active ingredient chlorpyrifos, chlorpyrifos-methyl is a highly effective and broad-spectrum organophosphorus insecticide; it has stomach, contact and fumigating toxicity. It can be used to control not only pests in stored grains and various leafy crops, but also mosquitoes, flies and other sanitary pests. However, chlorpyrifos-methyl has been banned or restricted in some countries and regions around the world due to its developmental neurotoxicity and potential genetic toxicity.

Yet unlike chlorpyrifos, chlorpyrifos-methyl has not developed well in China. The number of valid registrations of chlorpyrifos-methyl products in China tells a lot; as of 6 June, 2022, there were only five chlorpyrifos-methyl products—three TC products plus two EC products—with valid pesticide registration in China.

One of the registered products is Jiangsu Xinnong's chlorpyrifos-methyl 96.5% TC. It lays a good foundation for the company to independently register chlorpyrifos-methyl formulation products in the future, or authorise some third-party companies to develop chlorpyrifos-methyl formulations. Once the 3,000 t/a capacity is put into full operation, Zhejiang Xinnong will have a new source of profit, and thus can snatch a more competitive position in pesticide market with improved profitability.

**TABLE 1:** Registration of chlorpyrifos-methyl products in China, as of 6 June, 2022

No.	Registrant	Product	Total content	Expiry date
1	Jiangsu Xinnong Chemical Co., Ltd.	Chlorpyrifos-methyl TC	96.50%	2023/5/16
2	Corteva Agriscience	Chlorpyrifos-methyl TC	96%	2022/9/7
3	Jiangsu Lanfeng Biochemical Co., Ltd.	Chlorpyrifos-methyl TC	95%	2023/1/4
4	Jiangsu Lanfeng Biochemical Co., Ltd.	Chlorpyrifos-methyl EC	40%	2025/1/14
5	Corteva Agriscience	Chlorpyrifos-methyl EC	400g/L	2022/9/7

Source: The Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA)

Jiangsu Xinnong, established in Nov. 2007, is located in Rudong Yangkou Chemical Industrial Park, Jiangsu Province. Besides the chlorpyrifos-methyl TC capacity, Jiangsu Xinnong also holds capacity of 1,200 t/a zinc thiazole TC, 3,300 t/a chlorpyrifos TC, 300 t/a





pyraclostrobin TC, 20,000 t/a O,O-diethylthiophosphoryl chloride, 1,500 t/a phenylhydrazine, 960 t/a 2-mercapto-5-methyl-1,3,4-thiadiazole. As regards its parent company Zhejiang Xinnong, it has in other production bases production lines of 3,200 t/a triazophos TC, 3,000 t/a chlorpyrifos TC, 800 t/a 1,3-cyclohexanedione, 2,000 t/a 3,4-dimethylaniline, 6,200 t/a pesticide formulations.

### **Inner Mongolia Biok plans new capacity for insecticides TC**

Summary: Inner Mongolia Biok has planned to expand its production capacity of pesticides, which includes insecticides 100 t/a emamectin benzoate TC, 150 t/a lufenuron TC, 150 t/a teflubenzuron TC and 400 t/a chlorantraniliprole TC.

In early June, CCM learned from Inner Mongolia Biok Biology Co., Ltd. (Inner Mongolia Biok) that it had planned the project "integrated production base for green pesticide formulations", the Phase I (1,800 t/a in total) of which involves 600 t/a prothioconazole TC, 400 t/a chlorantraniliprole TC, 150 t/a lufenuron TC, 150 t/a teflubenzuron TC, 150 t/a picoxystrobin TC, 150 t/a cyproconazole TC, 100 t/a emamectin benzoate TC and 100 t/a bixafen TC. Civil work for the Phase I started recently.

Inner Mongolia Biok's green pesticide formulation integrated production base project is divided into three phases. The Phase I deals with pesticide TC products, the Phase II veterinary drug TC products and finally the Phase III formulation products of pesticides and veterinary drugs.

Among the proposed products, emamectin benzoate TC is a high-efficacy semi-synthetic antibiotic insecticide produced from abamectin TC. Inner Mongolia Biok already has 120 t/a abamectin TC capacity, which will provide the company with a big advantage over most of its competitors in emamectin benzoate business, once its lines are put into full operation. To emanectine benzoate TC producers, with or without sufficient supply of upstream raw material abamectin makes a huge difference, besides the capability to maintain normal operation under high requirements on environmental protection and work safety.

In China, main emamectin benzoate TC producers are: Ningxia Taiyicin Biotech Co., Ltd., Inner Mongolia New Veyong Bio-chemical Co., Ltd., Inner Mongolia Jumbo Biochemistry Co., Ltd., Hunan Gofar Fine Chemical Industry Tech. Co., Ltd., Synwill Nantong Chemical Co., Ltd., Qingdao KYX Chemical Co., Ltd., Syngenta Nantong Crop Protection Co., Ltd., Jingmen Jinxianda Biotechnology Co., Ltd. and Qilu Synva Pharmaceutical Co., Ltd.

### **Zhejiang Heben calls off capacity building for propargite TC and hexythiazox TC**

Summary: Zhejiang Heben has called off the plan to construct capacity for propargite TC, hexythiazox TC and some herbicide TC products in its Sichuan production base.

In June 2022, CCM learned from Zhejiang Heben Pesticide & Chemicals Co., Ltd. (Zhejiang Heben) that it had planned to cancel construction of production lines of 2,000 t/a propargite TC, 300 t/a hexythiazox TC, 2,000 t/a fomesafen TC and 3,000 t/a pendimethalin TC in its Sichuan production base. Other products planned in the same project will not be affected.

Zhejiang Heben's Sichuan production base, the third production base of the company, is its wholly-owned subsidiary Sichuan Heben Crop





Protection Co., Ltd. (Sichuan Heben), which is located in Nanchong Economic Development Zone, Nanchong City, Sichuan Province. Zhejiang Heben's first production base, also the company's headquarter, is in Yangyi Yanjiang Industrial Area, Wenzhou City, Zhejiang Province, and its second production base, another wholly-owned subsidiary Jiangsu Heben Pesticide & Chemicals Co., Ltd., is located in Rudong Yangkou Chemical Industrial Park, Nantong City, Jiangsu Province.

To expand its production scale, Zhejiang Heben proposed in Sichuan Heben a 21,850 t/a pesticides TC and 4,500 t/a intermediates project. The project started construction in June 2020; construction work is still ongoing now. Specific product and capacity plan for the project are as follows, including 13 pesticides TC and 2 intermediates in total:

- Insecticides/acaricides: 2,000 t/a propargite TC and 300 t/a hexythiazox TC;
- Fungicides: 2,500 t/a metalaxyl TC, 2,000 t/a tricyclazole, 1,500 t/a metalaxyl-M TC, 1,000 t/a fentin acetate TC, 500 t/a fentin hydroxide TC and 50 t/a pyraclostrobin TC;
- Herbicides: 4,000 t/a clomazone TC, 3,000 t/a pendimethalin TC, 2,000 t/a oxyfluorfen TC, 2,000 t/a fomesafen TC and 1,000 t/a quizalofop-P-ethyl TC;
- Intermediates: 3,000 t/a 1,2-pentanediol and 1,500 t/a 4-cyanophenol.

In the replacement of scrapping 7,300 t/a pesticide capacity building, Zhejiang Heben decides to launch a 1,700 t/a pesticides TC project in the Sichuan base, which consists of 300 t/a indoxacarb TC, 500 t/a pyriproxyfen TC, 800 t/a nicosulfuron TC and 100 t/a imazalil TC. Currently, Zhejiang Heben is actively involved in assisting Sichuan Heben in acquiring government approval of the new project.

### **Jiangxi Huihe to build 3,000 t/a pesticide project**

Summary: On 23 June, local authorities made public the information on Jiangxi Huihe's 3,000 t/a high-efficacy pesticide project before the company submits related documents for government approval. Jiangxi Huihe has planned to transform its existing 2,075 t/a prochloraz TC production line into lines for 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC and etc.

On 23 June, authorities of Yongxiu County, Jiangxi Province made public the information on the 3,000 t/a high-efficacy pesticide project of Jiangxi Huihe Chemical Co., Ltd. (Jiangxi Huihe), before the company submits related documents for government approval. Jiangxi Huihe launches the transformation project to enrich its product mix.

Jiangxi Huihe now only produces one TC product, prochloraz TC, with 4,150 t/a capacity. To boost its competitiveness and better guard against market risks, the company has planned to transform the existing 2,075 t/a prochloraz TC production equipment into 3,000 t/a production capacity for six other TC products (600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC, 900 t/a tebuconazole TC and 200 t/a flusilazole TC). At the same time, another 2,075 t/a prochloraz TC production line will go through technical transformation. And some environmental protection facilities will be upgraded and optimised to reduce pollutant emissions.

Jiangxi Huihe, with a registered capital of USD30 million (RMB200 million), is a wholly-owned subsidiary of Jiangxi Zhengbang Crop Protection Co., Ltd.; the latter is a subsidiary of Jiangxi Zhengbang Technology Co., Ltd., a China's top 500 enterprise. Jiangxi Huihe is located in Xinghuo Industrial Park, Yongxiu Yunshan Economic Development Zone, Jiangxi Province, covering an area of 22.27 ha (334







mu). It mainly engages in R&D, production and sale of pesticide technical and formulations. As of 23 June, Jiangxi Huihe had obtained registration certificates for flonicamid TC, spirotetramat TC and dinotefuran TC.

**TABLE 2:** Jiangxi Huihe's registrations of insecticides TC, as of 23 June, 2022

No.	Product	Total content	Expiry date
1	Flonicamid TC	97%	2027/8/20
2	Spirotetramat TC	97%	2027/8/20
3	Dinotefuran TC	98%	2023/6/27

Source: *The Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA)*

### **Nantong Jinling's 36.61kt/a pesticide formulations expansion project approved**

Summary: On 24 June, Nantong Jinling's 36,610 t/a pesticide formulations expansion project was approved by local authorities. The project can well match up with other pesticide technical producers in the same chemical park. Meanwhile, the company will slash its total pollutant emission with this project, through upgrading production process and pollution treatment facilities.

On 24 June, the Environmental Impact Assessment (EIA) report of Nantong Jinling Agrochemical Co., Ltd. (Nantong Jinling)'s 36,610 t/a pesticide formulations expansion project was approved by local authorities. This project is deemed as in accordance with the industrial positioning and development requirements of Yangkou Chemical Industrial Park, Rudong County, Nantong City, Jiangsu Province.

The 36,610 t/a pesticide formulations expansion project can well match up with other pesticide technical capacity in the same chemical park. Sourced from those technical producers, Nantong Jinling helps to supplement the existing pesticide industry chain in the park. The company will also slash its total pollutant emission with this project, through upgrading production process and pollution treatment facilities.

Currently, it is required that the number of pesticide enterprises in the western side of Yangkou Chemical Industrial Park should not increase any further; in fact, the park intends to reduce the number to 15 from 23 at present. Furthermore, Nantong Jinling, along with Nantong Shizhuang Chemical Co., Ltd., Rudong Huasheng Chemical Co., Ltd., Nantong Gongcheng Fine Chemical Co., Ltd. and Jiangsu Nantong Lihua Agrochemical Co., Ltd., all located west of Yangkou Third Road, is prohibited to launch chemical pesticide synthesis project (including synthesis of pesticide intermediates, excluding pesticide mixing and subpackaging).

Nantong Jinling was reformed in Jan. 2000 from the former Rudong Third Chemical Factory, which was established in 1977. It relocated to Yangkou Chemical Industrial Park in 2008. And in Aug. 2013, the then Nantong Municipal Environmental Protection Bureau approved to incorporate the relocation technical transformation project of the former Nantong Jinma Chemical Co., Ltd. (Jinma Chemical) into Nantong Jinling. Though part of the lines originally planned by Jinma Chemical completed construction, Nantong Jinling did not put them into trial run in 2014, seeing changing market dynamics. The production equipment was dismantled and sold in Oct. 2015. And the





workshops and warehouse lay idle. This time, the expansion project clearly declares to give up building production capacity for technical products previously planned by itself and Jinma Chemical, since the company has transformed into a manufacturer only engaged in pesticide formulation production.

**TABLE 3:** Nantong Jinling's formulation products with supporting technical producers in the same chemical park

No.	Technical source	Technical product	Formulation product in Nantong Jinling
1	Jiangsu Kuaida Agrochemical Co., Ltd.	96% Bensulfuron-methyl TC	Bensulfuron-methyl 10% WP, bensulfuron-methyl · acetochlor 14% WP
2	Jiangsu Reopnt Agrochemical Co., Ltd.	97% Pyrazosulfuron-ethyl TC	Pyrazosulfuron-ethyl 10%, 20% WP
3	Jiangsu Youjia Crop Protection Co., Ltd.	96% Lambda-cyhalothrin TC	Lambda-cyhalothrin 25g/L EC
4	Rudong Huasheng Chemical Co., Ltd.	97%, 88% Imidacloprid TC	Imidacloprid 10%, 25% WP
5	Jiangsu Changqing Agrochemical Co., Ltd.	97% Imidacloprid TC	Imidacloprid 10%, 25% WP
6	Jiangsu Changqing Agrochemical Co., Ltd.	97% Fomesafen TC	Fomesafen 250g/L AS
7	Jiangsu Laike Crop Protection Co., Ltd.	≥92% Acetochlor TC	Acetochlor 90% EC, bensulfuron-methyl · acetochlor 14% WP

Source: EIA report of Nantong Jinling's 36,610 t/a pesticide formulations expansion project





## Market analysis

### Flagging insecticide market in China in H1 2022

Summary: In early June, China's insecticide market saw sluggish demand and prices of most insecticides TC went down. In general, demand for insecticides has kept weak in H1 2022, mainly due to: weak end-user demand pushed the market to consume inventory; COVID-19 resurgence in China in H1 hindered logistics, which exacerbated the downturn in insecticide market.

In early June, China's insecticide market saw sluggish demand and prices of most insecticides TC went down.

- **Organophosphorus insecticides:** Most organophosphorus insecticides TC had stable ex-works prices, such as malathion TC and phoxim TC. However, a few witnessed rising prices, such as chlorpyrifos TC. Although demand for chlorpyrifos TC was lacklustre, tight supply pushed its price up a bit. In the near future, some organophosphorus insecticides TC are expected to experience price rise, given that the supply of an important intermediate—diethyl chlorothiophosphate, is tight in the market.
- **Pyrethroid insecticides:** Ex-works price of cypermethrin TC rose, while the prices of lambda-cyhalothrin TC and bifenthrin TC decreased due to sluggish demand. In the short term, with smaller market demand, ex-works prices of pyrethroid insecticides TC are expected to fall.
- **Nicotinoid insecticides:** Ex-works prices of some nicotinoid insecticides TC, such as imidacloprid TC and acetamiprid TC, declined continually, mainly due to slow downstream sales. However, prices of some important intermediates like 3-methyl-4-nitroiminoperhydro-1,3,5-oxadiazine, 2-nitroaminoimidazoline and ethyl N-cyanoethanimideate, increased slightly, which would prop up ex-works prices of nicotinoid insecticides TC and lead them up again.

In the first half of 2022, ex-works price of insecticides TC experienced YoY decline in general. In March, in particular, price of insecticides TC dropped by over 5% on average. Main reasons for the decrease are:

- Weak end-user demand pushed the market mainly to consume inventory.
- COVID-19 resurgence in China hindered logistics, which exacerbated the downturn in insecticide market.

With the arrival of high season for insecticide application and low inventory in the market, the insecticide market is expected to pick up.



TABLE 4: Early and mid-monthly ex-works prices of major insecticide TC products in China, H1 2022

Category	Product	Jan., Ex-works price (RMB/t)	Feb., Ex-works price (RMB/t)	March, Ex-works price (RMB/t)	April, Ex-works price (RMB/t)	May, Ex-works price (RMB/t)	June, Ex-works price (RMB/t)	MoM change in June
Organophosphorus insecticide	95% Chlorpyrifos technical	49,000	47,500	43,800	45,000	46,000	47,000	2.17%
	90% Phoxim technical	45,000	45,000	45,000	43,000	43,000	43,000	0.00%
	90% Profenofos technical	87,000	87,000	87,000	84,000	84,000	83,500	-0.60%
	90% Malathion technical	31,500	38,000	38,000	37,000	37,000	37,000	0.00%
Pyrethroid insecticide	94% Cypermethrin technical	92,000	89,000	88,000	83,000	82,500	84,400	2.30%
	95% Lambda-cyhalothrin technical	248,000	235,000	230,000	215,000	206,000	200,000	-2.91%
	97% Bifenthrin technical	355,000	340,000	320,000	305,000	285,000	282,500	-0.88%
Nicotinoid insecticide	97% Imidacloprid technical	210,000	195,000	175,000	160,000	155,000	147,800	-4.65%
	95% Acetamiprid technical	210,000	192,500	172,500	159,000	155,000	151,500	-2.26%
Antibiotic insecticide	95% Abamectin technical	710,000	710,000	670,000	650,000	630,000	605,000	-3.97%
	70% Emamectin benzoate technical	812,000	737,000	672,300	630,000	609,000	591,500	-2.87%

Source:CCM



TABLE 5: China Agricultural Price Index (CPI) insecticides, Jan. –May 2022

No.	Month	Insecticides (CPI)	MoM
1	Jan.	142.57	-1.72%
2	Feb.	139.80	-1.94%
3	March	132.39	-5.30%
4	April	127.84	-3.44%
5	May	126.98	-0.67%

Source: China Crop Protection Industry Association (CCPIA)





## Policy

**Hunan Province issues new policy to treat pollution from chemical industry along rivers**

Summary: In late May, Development and Reform Commission of Hunan Province issued the *Hunan Provincial Implementation Plan for Treating Pollutions from Chemical Industry along the Yangtze River Economic Belt During the 14th Five-Year Plan Period*. The implementation plan specifies major targets and key tasks, which includes optimising distribution of chemical industry and resolutely containing irrational chemical project initiatives in the province.

In late May, Development and Reform Commission of Hunan Province issued the *Hunan Provincial Implementation Plan for Treating Pollutions from Chemical Industry along the Yangtze River Economic Belt During the 14th Five-Year Plan Period*. The implementation plan proposes that by 2025, in the province, distribution of chemical industry will be optimised; pollution from chemical industry will be effectively controlled and comprehensively treated, the proportion of fine chemicals and high value-added products be significantly improved, resources be recycled more efficiently, and green production system be fostered in chemical parks.

Key tasks in addressing chemical pollution in Hunan Province, a province in the Yangtze River Economic Belt, specified in implementation plan include but not limited to:

- **Resolutely curb irrational development of chemical projects along the rivers.** No new construction or expansion of a chemical park or chemical project is allowed within the 1km-range to banks of the Yangtze River Hunan section, Dongting Lake, main streams of Xiangjiang River, Zijiang River, Yuanjiang River and Lishui River. It clearly rules out expansion of existing qualified chemical industrial parks into the 1km-range.
- **Carry out widespread identification of chemical parks.** Documents such as the *Measures for Construction Standard, Identification and Management of Chemical Parks (Trial)* and the *Guidelines for Identification and Evaluation of Chemical Parks in Hunan Province* require that, by 2023, identification work should be finished in all chemical parks within the province, and a list of chemical parks be compiled.
- **Strengthen rectification of chemical projects along the rivers.** Documents like the *Implementation Plan for the Relocation and Transformation of Chemical Enterprises along the Rivers in Hunan Province* require that, by 2025, relocation and transformation of chemical enterprises within 1km-range to the rivers should be finished. For other enterprises within the range, classified rectification and improvement would be promoted. Chemical production enterprises outside the range and outside a qualified chemical park should be guided into identified chemical parks.
- **Optimise industrial structure in chemical parks.** Management bodies of chemical parks should play a role in risk management and control, and set eyes on frontiers of the industries they are positioned to serve. They should also be engaged in encouraging leading enterprises to development of green, safe and environmental friendly projects with strong upstream and downstream relevance, as well as advanced technology.
- **Improve clean production in chemical enterprises along the rivers.** Measures should be taken to carry out evaluation, certification and review of clean production in traditional chemical industries like chemical fertiliser, pesticide and organic chemical industries. Set upper limits on consumption of water and energy. By 2025, more than 30% of the chemical enterprises in Hunan Province should reach the level-I cleaner production standard (the level signifies an internationally advanced level of cleaner production).







## Pest

### NATESC: relatively heavy occurrence of diseases and pests on early rice in 2022

Summary: In late May, a video conference on the occurrence trend forecast of diseases and pests on early rice in 2022 was held by the NATESC. It is expected that in general, there will be a relatively heavy occurrence of diseases and pests on early rice, covering an area of 16.67 million ha (250 million mu) in total, more severe than last year.

In late May, a video conference on the occurrence trend forecast of diseases and pests on early rice in 2022 was held by the National Agro-Tech Extension and Service Centre (NATESC). Based on a comprehensive analysis of current occurrence of diseases and pests, progress of rice cultivation and climatic conditions, it is expected that there will be a relatively heavy occurrence of diseases and pests on early rice in 2022, covering a total area of 16.67 million ha (250 million mu), more severe than the previous year. Specifically, rice planthopper and Asiatic rice striped borer will attack quite heavily, and in some regions occur heavily; rice leaf roller will attack moderately, and in some regions occur quite heavily; yellow rice borer will attack mildly. Compared with last year, this year will see heavier occurrence of rice planthopper, rice leaf roller and Asiatic rice striped borer, but milder occurrence of yellow rice borer.

#### Occurrence trend of major pests in main regions

##### –Rice planthopper

The pest is estimated to occur more severely this year, compared with the situation in last year, covering an area of 4.13 million ha (62 million mu).

- Relatively heavy occurrence: in central and western South China, southern Jiangnan region
- Moderate occurrence: in eastern South China, southwestern Southwest China, central Jiangnan region, middle & lower reaches of the Yangtze River

##### - Rice leaf roller

The pest is estimated to occur more severely this year, covering an area of 3 million ha (45 million mu).

- Moderate occurrence: in South China, Jiangnan region
- Relatively heavy occurrence: in some local areas in Jiangnan region
- Mild occurrence: in the rest rice production areas

##### - Asiatic rice striped borer (*Chilo suppressalis*)

The pest is estimated to occur more severely this year. The affected area will expand, reaching 3.60 million ha (54 million mu).

- Relatively heavy occurrence: in Jiangnan region and middle & lower reaches of the Yangtze River; and in some parts of the two regions heavy occurrence will be found.
- Moderate occurrence: in central and eastern South China

##### - Other pests (like yellow rice borer and rice *Sesamia inferens*)

These pests will occur in some paddy fields across the rice production areas in China, their occurrence is estimated to cover an area of 1.53 million ha (23 million mu).





NATESC also warned that, as per the 2021 National Agricultural Pest Resistance Monitoring Report, white-backed planthopper had developed medium to high level of resistance to buprofezin and chlorpyrifos; Asiatic rice striped borers with high-level resistance to chlorantraniliprole had spread from Zhejiang, Jiangxi and Hunan provinces to Anhui and Hubei provinces, and this pest's resistance to abamectin had increased.





## Registration

### ICAMA releases 15 newly registered insecticide products in early June

Summary: On 2 June, 2022, ICAMA released a batch of newly-registered pesticides, which include 15 insecticide products, of which 5 are hygienic insecticides.

On 2 June, 2022, the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA) publicised a list of 15 newly-registered insecticide products, including 5 hygienic insecticides. Popular active ingredients in these products include bifenthrin, chlorantraniliprole and clothianidin. These products are applicable on cabbage, rice, timber and etc.; their control targets are aphid, mosquito, termite, rice leaf roller and etc.

**TABLE 6:** Newly registered insecticide products by toxicity

No.	Toxicity	Number
1	Low	8
2	Light	5
3	Moderate	1
4	Low (TC is high)	1
<b>Total</b>		<b>15</b>

*Note: The monitoring period is from 16 May to 2 June, 2022.*

*Source: ICAMA*





TABLE 7: Newly registered insecticide products by applicable crop

No.	Applicable crop	Number
1	Indoor	3
2	Cabbage	2
3	Rice	2
4	Timber	1
5	Citrus trees	1
6	Sugar cane	1
7	Soil	1
8	Chinese wolfberry	1
9	Wheat	1
10	Cucumber	1
11	Potato	1
<b>Total</b>		<b>15</b>

Note: The monitoring period is from 16 May to 2 June, 2022.

Source: ICAMA





TABLE 8: Newly registered insecticide products by form

No.	Form	Number
1	SC	5
2	GR	2
3	SL	2
4	MC	1
5	ME	1
6	PM	1
7	OL	1
8	EC	1
9	WG	1
<b>Total</b>		<b>15</b>

Note: The monitoring period is from 16 May to 2 June, 2022.

Source: ICAMA





TABLE 9: Newly registered insecticide products by control target

No.	Control target	Number
1	Mosquito	2
2	Termite	2
3	Rice leaf roller	2
4	Aphid	2
5	Gall mite, aphid	1
6	Diamondback moth	1
7	Cockroach, fly	1
8	Red spider mite	1
9	Sugarcane beetle	1
10	Grub	1
11	Beet armyworm	1
<b>Total</b>		<b>15</b>

Note: The monitoring period is from 16 May to 2 June, 2022.

Source: ICAMA





TABLE 10: Newly registered insecticide products by registrant

No.	Registrant	Number
1	Wanrong Crop Science Co., Ltd.	2
2	Shaanxi Xiannong Biology Science Co., Ltd.	1
3	Zhengzhou Xianlida Chemical Co., Ltd.	1
4	Xuchang Jian'an Changsheng Daily Chemical Industries Co., Ltd.	1
5	Fumakilla Limited	1
6	Nanning Defengfu Chemical Co., Ltd.	1
7	Huangshan Lishen Daily Chemicals Co., Ltd.	1
8	Anhui Huawei Agrochemical Co., Ltd.	1
9	Shangyu Nutrichem Co., Ltd.	1
10	Jiangmen Daguangming Agrochemical Xinhui Co., Ltd.	1
11	Zhejiang Zhengdian Industry Co., Ltd.	1
12	Jiangsu Gongcheng Bio-tech Co., Ltd.	1
13	Anhui Fengle Agrochemical Co., Ltd.	1
14	Jiangxi HKLS Biotechnology Co., Ltd.	1
<b>Total</b>		<b>15</b>

Note: The monitoring period is from 16 May to 2 June, 2022.

Source: ICAMA

TABLE 11: Newly registered insecticide products by active ingredient &amp; content

No.	Active ingredient & content	Number
1	2.6% Abamectin-aminomethyl-9% chlorantraniliprole	2
2	4% Chlorfenapyr-1.7% bifenthrin	1
3	0.5% Dinotefuran	1
4	500g/L Fluazinam-50g/L abamectin	1
5	0.5% Cyfluthrin-1.5% clothianidin	1
6	460mg/L Metofluthrin	1
7	0.5% Veratramine-0.5% matrine	1
8	5% Bifenthrin	1
9	6.5% Bifenthrin-18.5% clothianidin	1
10	0.15% Clothianidin-0.05% cyfluthrin	1
11	50% Thiamethoxam-25% flonicamid	1
12	50g/L Lufenuron	1
13	0.05% Transfluthrin	1
14	10% Indoxacarb-20% tolfenpyrad	1
<b>Total</b>		<b>15</b>

Note: The monitoring period is from 16 May to 2 June, 2022.

Source: ICAMA



## Import and Export

### China's imidacloprid exports to major destinations in Q1 2022

Summary: According to export data from Tranalysis, in Q1 2022, China exported 2,680.58 tonnes (actual volume) or 1,990.81 tonnes (converted to 100% AI) imidacloprid products to 27 major destinations including the US, India, Russia and Vietnam.

In Q1 2022, China exported 2,680.58 tonnes (actual volume) or 1,990.81 tonnes (converted to 100% AI) imidacloprid products to 27 major destinations including the US, India, Russia, Vietnam, according to the import and export data updated to 1 June from Tranalysis.

#### Details of China's imidacloprid exports in Q1 2022 are as follows:

##### Imidacloprid formulation

- Specification for export: 70% WP, 25% WP, 20% WP, 10% WP, 600g/L SC, 350g/L SC, 200g/L SC, 70% WG, 600g/L FS, 200g/L SL, 2% GR
- Major destination: China exported 859.02 tonnes (actual volume, the same hereafter) of imidacloprid formulations to major destinations, at an average price of USD10.41/kg. In particular, 281.00 tonnes went to Vietnam, which accounts for 32.71% of China's total imidacloprid formulation export during this period.
- Major exporter: The top three exporters, JAT Offshore S.A.L., Hisigma Chemicals Co., Ltd. and Jiangsu Sinamyang International Group Co., Ltd., exported 227.91 tonnes of imidacloprid formulations in combination, making up 26.53% of China's total imidacloprid formulation export during this period.

##### Imidacloprid TC

- Specification for export: 98% TC, 97% TC, 95% TC, 96% TC
- Major destination: China exported 1,821.55 tonnes of imidacloprid TC to major destinations, at an average price of USD30.10/kg. Among them, the US was the largest export destination with a volume of 594.35 tonnes, taking up 32.63% of China's total imidacloprid TC export during this period.
- Major exporter: The top three imidacloprid TC exporters, Nufarm Chemical (Shanghai) Co., Ltd., Suzhou Bianjing Agro-Biochemical Co., Ltd. and Shandong United Pesticide Industry Co., Ltd., together exported 673.06 tonnes of imidacloprid TC, making up 36.95% of China's total imidacloprid TC export during this period.



TABLE 12: Exports of imidacloprid formulations from China, Q1 2022

No.	Specification	Volume, kg	Average price, USD/kg
1	10% WP	276,000	3.05
2	200g/L SL	226,268	10.88
3	70% WG	116,672	20.03
4	350g/L SC	73,244	14.12
5	25% WP	45,906	5.71
6	200g/L SC	42,800	13.66
7	600g/L FS	31,533	18.94
8	2% GR	22,100	7.21
9	600g/L SC	16,000	25.68
10	70% WP	4,500	48.98
11	20% WP	4,000	7.30
<b>Total</b>		<b>859,022</b>	<b>10.41</b>

Note: The data, sourced from Tranalysis, were updated on 1 June, 2022.

Source: Tranalysis

TABLE 13: Exports of imidacloprid TC from China, Q1 2022

No.	Specification	Volume, kg	Average price, USD/kg
1	98% TC	1,144,217	31.61
2	97% TC	336,934	28.49
3	95% TC	256,403	25.55
4	96% TC	84,000	29.86
<b>Total</b>		<b>1,821,553</b>	<b>30.10</b>

Note: The data, sourced from Tranalysis, were updated on 1 June, 2022.

Source: Tranalysis

**TABLE 14:** Major destinations of imidacloprid formulation exported from China, Q1 2022

No.	Destination	Volume, kg
1	Vietnam	281,000
2	Nigeria	106,890
3	Peru	70,549
4	Kazakhstan	61,626
5	Bangladesh	60,207
6	South Korea	49,572
7	Pakistan	48,000
8	Russia	47,742
9	Uganda	30,660
10	Brazil	25,800
	Others	76,976
	<b>Total</b>	<b>859,022</b>

Note: The data, sourced from Tranalysis, were updated on 1 June, 2022.

Source: Tranalysis





TABLE 15: Major destinations of imidacloprid TC exported from China, Q1 2022

No.	Destination	Volume, kg
1	The US	594,352
2	India	508,165
3	Russia	269,000
4	Argentina	137,000
5	Brazil	111,710
6	Mexico	104,000
7	Turkey	37,055
8	Paraguay	23,200
9	Peru	8,050
10	Indonesia	8,000
	Others	21,022
	<b>Total</b>	<b>1,821,553</b>

Note: The data, sourced from Tranalysis, were updated on 1 June, 2022.

Source: Tranalysis





TABLE 16: Major exporters of imidacloprid formulations from China, Q1 2022

No.	Exporter	Volume, kg
1	JAT Offshore S.A.L.	106,890
2	Hisigma Chemicals Co., Ltd.	73,015
3	Jiangsu Sinamyang International Group Co., Ltd.	48,000
4	Nanjing Essence Fine Chemical Co., Ltd.	46,126
5	Shanghai E-tong Chemical Co., Ltd.	38,630
6	Qingdao Higrow Chemicals Co., Ltd.	33,000
7	Shandong Sino-Agri United Biotechnology Co., Ltd.	32,000
8	Sino Agro-Chemical Industry Ltd.	32,000
9	Hangzhou Xinlong Industrial Co., Ltd.	30,000
10	Shanghai Hui Song (H&S) Agro-Solution Co., Ltd.	26,160
	Others	393,201
	<b>Total</b>	<b>859,022</b>

Note: The data, sourced from Tranalysis, were updated on 1 June, 2022.

Source: Tranalysis



TABLE 17: Major exporters of imidacloprid TC from China, Q1 2022

No.	Exporter	Volume, kg
1	Nufarm Chemical (Shanghai) Co., Ltd.	363,060
2	Suzhou Bianjing Agro-Biochemical Co., Ltd.	160,000
3	Shandong United Pesticide Industry Co., Ltd.	150,000
4	Hebei Bestar Commerce and Trade Co., Ltd.	115,000
5	Qingdao KYX Chemical Co., Ltd.	92,350
6	Sinochem Agro Co., Ltd.	81,000
7	Hailir Pesticides and Chemicals Group Co., Ltd.	57,000
8	Jiangsu Changlong Agrochemical Co., Ltd.	56,120
9	Rudong Huasheng Chemical Co., Ltd.	48,000
10	Shandong Weifang Rainbow Chemical Co., Ltd.	46,000
	Others	653,023
	<b>Total</b>	<b>1,821,553</b>

Note: The data, sourced from Tranalysis, were updated on 1 June, 2022.

Source: Tranalysis





## News in Brief

**Chongqing Huage to build 2kt/a chlorantraniliprole TC capacity**

Late May, Redsun Group Co., Ltd. released on its official website the first-time environmental impact assessment information on the chlorantraniliprole technical project of Chongqing Huage Biochemical Co., Ltd. (Chongqing Huage). Through this project, the company intends to extend to lower reach of chlorinated pyridine industrial chain.

**Details of the project**

- Location: Jiulongyuan, Wanzhou Economic Development Zone, Chongqing Municipality
- Area: 0.3 ha building footprint, with 0.5 ha new construction area
- Total investment: USD14.25 million (RMB95 million)
- Construction content: 2,000 t/a chlorantraniliprole technical production line

**Hunan Haili to co-establish a subsidiary with Jiangxi Dingxin**

On 1 June, Hunan Haili Chemical Industry Co., Ltd. (Hunan Haili) announced that it would establish a subsidiary Jiangxi Haili Dingxin Biological Technology Co., Ltd. (Jiangxi Haili, tentative name), jointly with Jiangxi Zhoushi Dingxin Technology Co., Ltd. (Jiangxi Dingxin). The new subsidiary will be located in the Sulphur Phosphorus Chemical Park, Guixi City, Jiangxi Province. It will be specialised in production, retail and wholesale of pesticides (details of its specific business are subject to the approval documents or licences issued by relevant departments). Registered capital for Jiangxi Haili is planned at USD15 million (RMB100 million), with Hunan Haili contributing 66% and Jiangxi Dingxin the rest 34%.

**Qingdao Hengning's 40kt/a technical and intermediate project (phase I) comes into trial production**

On 7 June, Hailir Pesticides and Chemicals Group Co., Ltd. (Hailir Group) announced that its subsidiary Qingdao Hengning Biotechnology Co., Ltd. (Qingdao Hengning) had completed construction of main buildings for 40,000 t/a technical and intermediate project (phase I), and equipment had installed and gone through commissioning. Recently, the trial production plan has been reviewed and approved by experts, and filed for record at relevant departments in charge. As deemed qualified, the project now comes into trial production. Product and capacity for this phase are follows: 2,000 t/a chlorfenapyr TC, 2,000 t/a diafenthiuron TC, 3,000 t/a difenoconazole TC, 2,000 t/a propiconazole TC and supporting intermediates.

**Yichang Hengyou to build new capacity for insecticide intermediates**

In late May, environment impact assessment report of Yichang Hengyou Chemical Co., Ltd. (Yichang Hengyou)'s 21,000 t/a chloropyridines project was publicised. The company will invest USD150.94 million (RMB1,006 million) in this project, which will be located in Yaojiagang Industrial Park, Yichang City, Hubei Province. The products planned and their designed capacity are as follows:

- Intermediates: 4,015 t/a 2,3-Dichloropyridine, 1,725 t/a 3-chloro-2-hydrazinopyridine, 6,561 t/a 2,6-dichloropyridine, 6,323 t/a 2,3,6-trichloropyridine;
- By-product: 1,190 t/a 2,3,5,6-tetrachloropyridine, 1,184 t/a pentachloropyridine, 1,294 t/a sodium chloride, 2,062 t/a ammonium chloride, 12,928 t/a hydrochloric acid (30%, wt/wt), 80,111 t/a sodium hypochlorite (10% Cl, wt/wt).





At present, Yichang Hengyou's two flagship products are pentachloropyridine (with production capacity 4,000 t/a) and hydrochloric acid ether (2,000 t/a). As to the pyridine derivatives planned in its latest project, 2,3-dichloropyridine and 3-chloro-2-hydrazinopyridine are important intermediates for insecticide chlorantraniliprole, while 2,3,5,6-tetrachloropyridine is an important intermediate for insecticides chlorpyrifos and chlorpyrifos-methyl.

### **Hunan Haili to increase registered capital of four subsidiaries**

On 21 June, Hunan Haili Chemical Industry Co., Ltd. (Hunan Haili) announced that the company would increase registered capital of four subsidiaries, to better develop business in these subsidiaries, as well as to accelerate its efforts in industrial upgrading and expand its overall production and operation scale. Details of the capital increase plan are as follows:

- Ningxia Haili Technology Co., Ltd. (Ningxia Haili): to increase the registered capital by USD30.01 million (RMB200 million)
- Haili Guixi New Material Technology Co., Ltd. (Haili Guixi): to increase the capital by USD15.15 million (RMB101 million)
- Hunan Haili Lithium Technology Co., Ltd.: to increase the capital by USD15 million (RMB100 million)
- Hunan Haili Engineering Installation Co., Ltd.: to increase the capital by USD2.25 million (RMB15 million)

Of these four subsidiaries, Ningxia Haili and Haili Guixi are engaged in pesticide production.

### **MOF allocates funds for purchasing pesticides and spraying tools**

On 14 June, the Ministry of Finance of the People's Republic of China (MOF) allocated a total of USD100.75 million (RMB673 million) to 25 provinces (autonomous region and municipality included) including Jilin, Heilongjiang, Guangxi, Hunan, Guangdong, Jiangxi. The funds are mainly for local governments to purchase pesticides and spraying tools to prevent and control major pests & diseases on rice and corn, locusts, *Solenopsis invicta* and etc. The funds could also be used as allowances for joint prevention and control services.

The central government will guide local governments to take timely precautions and relief measures such as biological control and ecological control, strengthen monitoring and early warning, promote large-scale joint pest prevention, control and treatment, and cut the spread of pests & diseases, so as to diminish agricultural losses and damages incurred and to provide a strong support for a bumper harvest of autumn grains.

### **Sichuan Saiwei to build capacity for insecticide formulation products**

On 7 June, Sichuan Saiwei Biotechnology Co., Ltd. (Sichuan Saiwei)'s 3,000 t/a insecticide formulation products & 1,000 t/a glyphosate 74.7% SG project was approved by the Meishan Municipal Ecological Environment Bureau. The company will invest USD4.35 million (RMB29 million), of which USD107.73 thousand (RMB718 thousand) is for environmental protection. The project will be located in High-tech Chemical Park, Meishan City, Sichuan Province. The products planned and their designed capacity are as follows:

- 2,000 t/a Deltamethrin · fenitrothion CJF
- 500 t/a Beta-cypermethrin · acetamiprid ME
- 500 t/a Abamectin · chlorpyrifos EW
- 1,000 t/a Glyphosate SG

### **Implementation plan for reducing pollution and carbon emissions issued**





On 13 June, the Ministry of Ecology and Environment of the People's Republic of China jointly issued the *Implementation Plan for Boosting Synergy of Reducing Pollution and Carbon Emissions* with other six government departments. The implementation plan proposes to strengthen zoning control of ecological environment, promote the transition toward green & low-carbon energy, and etc.

For key industries, the implementation plan also sets specific developmental targets, such as:

- As regards chemical fertilisers and pesticides, by 2025, their utilisation rate on wheat, corn and rice will increase to 43%.
- In industrial field, the proportion of short-process steelmaking in China will increase to more than 15% by 2025 and the ratio will surpass 20% by 2030; domestic output of recycled aluminium will reach 11.50 million tonnes in 2025, and by 2030, the proportion of renewable energy used to produce electrolytic aluminium will exceed 30%.

### **Shandong Eshung to obtain building permit for its 41kt/a pesticide project**

In late May, the Administrative Examination and Approval Service Bureau of Jinxiang County, Jining City, Shandong province, publicised related information before approving the building permit of Shandong Eshung Industrial Co., Ltd. (Shandong Eshung)'s construction project for 10,000 t/a chlorantraniliprole TC, 20,000 t/a glufosinate-ammonium TC, 10,000 t/a glufosinate-p TC and 1,000 t/a topramezone TC. The environmental impact assessment information of this project was published in 2020. Shandong Eshung has planned to invest USD94.22 million (RMB628 million) in this project, of which USD6.78 million (RMB45.2 million) is for environmental protection. According to the company's plan, the new capacity will be located in Jinxiang New Material Park, Jinxiang County.

### **Sichuan issues soil pollution prevention and control plan (2021–2025)**

On 16 June, Sichuan Provincial Department of Ecology and Environment issued the *Soil Pollution Prevention and Control Plan of Sichuan Province During the 14th Five-Year Plan Period* (the Plan). The Plan proposes that by 2025, sources of soil pollution within the province will be basically put under control. The Plan also requires that supervision of soil pollution sources should be strengthened, especially on enterprises in key industries, mineral resources developers, solid wastes and chemical fertilisers & pesticides. Efforts should be increased in prevention and treatment of heavy metal pollution, and in preventing polluted soil from expanding.

As regards pesticides, the Plan requires continuously promoting usage reduction and efficacy enhancement. The government will promote green prevention & control technologies, pesticides of low toxicity and little residue, as well as recycling and disposal of pesticide packaging wastes.



Price Update

Ex-works prices of major insecticides in China on 8 June 2022

TABLE 18: Ex-works prices of major insecticides in China, 8 June, 2022

Product	20220508		20220608	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	630,000	95,931.29	605,000	90,771.33
97% Acephate technical	58,500	8,907.91	58,500	8,777.06
95% Acetamiprid technical	155,000	23,602.14	151,500	22,730.34
95% Azocyclotin technical	230,000	35,022.54	237,500	35,633.37
95% Beta-Cypermethrin technical	170,000	25,886.22	167,000	25,055.89
97% Bifenthrin technical	285,000	43,397.49	282,500	42,384.96
95% Buprofezin technical	78,000	11,877.21	78,000	11,702.75
98% Carbofuran technical	115,000	17,511.27	115,000	17,254.05
98% Chlorfenapyr technical	327,000	49,792.91	321,000	48,161.32
95% Chlorfluazuron technical	530,000	80,704.11	530,000	79,518.69
95% Chlorpyrifos technical	46,000	7,004.51	47,000	7,051.66
94% Cypermethrin technical	82,500	12,562.43	84,400	12,662.98
99% Cyromazine technical	160,000	24,363.5	160,000	24,005.64
98% Deltamethrin technical	560,000	85,272.26	560,000	84,019.74
95% Diafenthiuron technical	150,000	22,840.78	150,000	22,505.29
98% Dimethoate technical	47,600	7,248.14	47,600	7,141.68
70% Emamectin benzoate technical	609,000	92,733.59	591,500	88,745.86
92% Fenvalerate technical	140,000	21,318.07	140,000	21,004.94
95% Fipronil technical	570,000	86,794.98	570,000	85,520.1
98% Hexaflumuron technical	535,000	81,465.46	535,000	80,268.86



97% Imidacloprid technical	155,000	23,602.14	147,800	22,175.21
98% Isoprocarb technical	44,000	6,699.96	44,000	6,601.55
95% Lambda-cyhalothrin technical	206,000	31,368.01	200,000	30,007.05
90% Malathion technical	37,000	5,634.06	37,000	5,551.3
95% Methidathion technical	90,000	13,704.47	90,000	13,503.17
Methomyl 90% SP	75,000	11,420.39	75,000	11,252.64
98% Methomyl technical	86,000	13,095.38	86,000	12,903.03
75% Omethoate technical	51,400	7,826.78	51,400	7,711.81
90% Phoxim technical	43,000	6,547.69	43,000	6,451.52
90% Profenofos technical	84,000	12,790.84	83,500	12,527.94
90% Propargite technical	57,000	8,679.5	57,000	8,552.01
95% Pymetrozine technical	152,000	23,145.33	148,000	22,205.22
95% Pyridaben technical	104,000	15,836.28	104,000	15,603.67
97% Spirodiclofen technical	172,000	26,190.77	172,000	25,806.06
85% Triazophos technical	58,500	8,907.91	58,500	8,777.06

Note: Ex-works price includes VAT.

Source: CCM

### Shanghai Port prices of major insecticides in China, 8 June 2022



TABLE 19: Shanghai Port prices of major insecticides in China, 8 June, 2022

Product	20220508		20220608	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	630,500	96,007.43	605,500	90,846.35
97% Acephate technical	59,000	8,984.04	59,000	8,852.08
95% Acetamiprid technical	155,500	23,678.28	152,000	22,805.36
95% Azocyclotin technical	230,500	35,098.67	238,000	35,708.39
95% Beta-Cypermethrin technical	170,500	25,962.36	167,500	25,130.91
97% Bifenthrin technical	285,500	43,473.63	283,000	42,459.98
95% Buprofezin technical	78,500	11,953.34	78,500	11,777.77
98% Carbofuran technical	115,500	17,587.4	115,500	17,329.07
98% Chlorfenapyr technical	327,500	49,869.05	321,500	48,236.34
95% Chlorfluazuron technical	530,500	80,780.24	530,500	79,593.7
95% Chlorpyrifos technical	46,500	7,080.64	47,500	7,126.67
94% Cypermethrin technical	83,000	12,638.57	84,900	12,737.99
99% Cyromazine technical	160,500	24,439.64	160,500	24,080.66
98% Deltamethrin technical	560,500	85,348.4	560,500	84,094.76
95% Diafenthiuron technical	150,500	22,916.92	150,500	22,580.31





Product	20220508		20220608	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
98% Dimethoate technical	48,100	7,324.28	48,100	7,216.7
70% Emamectin benzoate technical	609,500	92,809.72	592,000	88,820.87
92% Fenvalerate technical	140,500	21,394.2	140,500	21,079.95
95% Fipronil technical	570,500	86,871.12	570,500	85,595.11
98% Hexaflumuron technical	535,500	81,541.6	535,500	80,343.88
97% Imidacloprid technical	155,500	23,678.28	148,300	22,250.23
98% Isoprocarb technical	44,500	6,776.1	44,500	6,676.57
95% Lambda-cyhalothrin technical	206,500	31,444.15	200,500	30,082.07
90% Malathion technical	37,500	5,710.2	37,500	5,626.32
95% Methidathion technical	90,500	13,780.61	90,500	13,578.19
Methomyl 90% SP	75,500	11,496.53	75,500	11,327.66
98% Methomyl technical	86,500	13,171.52	86,500	12,978.05
75% Omethoate technical	51,900	7,902.91	51,900	7,786.83
90% Phoxim technical	43,500	6,623.83	43,500	6,526.53
90% Profenofos technical	84,500	12,866.98	84,000	12,602.96
90% Propargite technical	57,500	8,755.63	57,500	8,627.03
95% Pymetrozine technical	152,500	23,221.46	148,500	22,280.24





Product	20220508		20220608	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Pyridaben technical	104,500	15,912.41	104,500	15,678.68
97% Spirodiclofen technical	172,500	26,266.9	172,500	25,881.08
85% Triazophos technical	59,000	8,984.04	59,000	8,852.08

Note: Shanghai port price = ex-works price + transportation fee from warehouse to Shanghai port, and the ex-works price includes VAT.

Source: CCM

### FOB Shanghai prices of major insecticides in China, 8 June 2022





TABLE 20: FOB Shanghai prices of major insecticides in China, 8 June, 2022, USD/t

Product	20220508	20220608
95% Abamectin technical	93,452.39	88,432.08
97% Acephate technical	8,517.5	8,392.39
95% Acetamiprid technical	23,113.95	22,263.77
95% Azocyclotin technical	34,220.02	34,811.68
95% Beta-Cypermethrin technical	24,444.06	23,662.79
97% Bifenthrin technical	40,870.56	39,918.38
95% Buprofezin technical	11,711.72	11,539.69
98% Carbofuran technical	17,190.71	16,938.21
98% Chlorfenapyr technical	48,583.87	46,994.81
95% Chlorfluazuron technical	78,644.3	77,489.14
95% Chlorpyrifos technical	6,973.13	7,016.61
94% Cypermethrin technical	11,945.64	12,037.58
99% Cyromazine technical	23,015.67	22,677.6
98% Deltamethrin technical	80,151.32	78,974.02
95% Diafenthiuron technical	21,587.28	21,270.19
98% Dimethoate technical	6,960.55	6,858.31
70% Emamectin benzoate technical	90,342.69	86,462.35
92% Fenvalerate technical	20,158.89	19,862.78
95% Fipronil technical	84,567.54	83,325.37
98% Hexaflumuron technical	79,384.7	78,218.67
97% Imidacloprid technical	23,113.95	21,723.92
98% Isoprocarb technical	6,446.33	6,351.64
95% Lambda-cyhalothrin technical	29,586.27	28,307.25





Product	20220508	20220608
90% Malathion technical	5,446.46	5,366.46
95% Methidathion technical	13,488.69	13,290.56
Methomyl 90% SP	11,267.48	11,101.98
98% Methomyl technical	14,042.51	13,836.25
75% Omethoate technical	7,503.34	7,393.13
90% Phoxim technical	6,487.75	6,392.46
90% Profenofos technical	12,159.89	11,910.91
90% Propargite technical	8,602.02	8,475.67
95% Pymetrozine technical	21,872.96	20,988.71
95% Pyridaben technical	15,561.82	15,333.25
97% Spirodiclofen technical	24,729.74	24,366.5
85% Triazophos technical	8,824.14	8,694.53

*Note: FOB Shanghai price considers factors of Shanghai port price, port sur-charges, loading charges, traders' profits and export tax refund. And the shipment cost shall be paid by the buyer. This FOB price is the average of quotations offered by enterprises and it may be lower than the one reported in customs data which is the actual purchase price.*

*Source: CCM*



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