

# Insecticides China Monthly Report 202208

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### Headline

On 28 July, the EI report of Hubei Jinghesheng's 13,600 t/a pesticides TC and intermediates project was published by local authorities. The company plans to build capacity of 3,000 t/a thiamethoxam, 2,000 t/a clothianidin, 1,000 t/a pymetrozine, 600 t/a flonicamid and other intermediates.

Hebei Di'annong has planned to build capacity for insecticides TC and supporting intermediates, including 5,000 t/a acetamiprid TC, 3,000 t/a bifenthrin TC, 2,000 t/a thiamethoxam TC, 1,500 t/a pyridaben TC, 1,000 t/a clothianidin TC, 1,000 t/a chlorantraniliprole TC.

On 16 Aug., the EI report of Shangyu Xinyinbang's 400 t/a methoxyfenozide TC project was published by local authorities. Along with the new construction plan, the company declares cancellation of the previously approved 20,000 t/a glyphosate TC (converted to 100% AI) project and 100 t/a cyproconazole TC project.

On 16 Aug., the groundbreaking ceremony for Shandong Luba's high-end green chemicals project was held in Dezhou City, Shandong Province. Phase I project will build production lines for malathion TC, dimethoate TC and other products.

The summer heat has affected overall operating rate of pesticide industry, and impacted market demand in general. In late Aug., prices of most insecticides TC keep stable, though there are price rises in some individual products and drops in some nicotinoid insecticides TC.

In late July, Plant Quarantine and Plant Protection Station of Heilongjiang Province released a forecast on locust occurrence—in general, the province is expected to experience sporadic occurrence of locusts this year. Major threats come from late-attackers like *Epacromius coerulipes* and Chinese rice grasshopper.

According to export data from Tranalysis, in Jan.–May 2022, China exported 2,338.40 tonnes (actual volume) or 1,733.04 tonnes (converted to 100% AI) of lambda-cyhalothrin products to 21 major destinations including the US, Belgium and India.

In late July, the Jiangsu Provincial Work Safety Committee issued Twelve Key Measures for Prompting Hazardous Chemical Production and Storage Enterprises to Fulfil Primary Responsibility in Jiangsu Province for the purpose of preventing and reducing various kinds of production safety accidents at the source.

On 14 Aug., Sichuan Provincial Economic and Information Department and State Grid Sichuan Electric Power Company jointly issued an emergency notice announcing expansion of power rationing in industrial power users in 19 cities and prefectures (excluding Panzhihua City and Liangshan Yi Autonomous Prefecture) to ensure sufficient power supply to residents.

On 29 July, ICAMA publicised the sixth-batch list of pesticide products to be approved of registration, including 24 insecticide products, of which 8 are hygienic insecticides.







### Editor's Note

In Aug., unprecedented heat hit many regions in China, which led some provinces to roll out power rationing policy or temporarily suspend some production. Overall, lowered operating rate has impacted demand for pesticides. In late Aug., prices of most insecticides TC keep stable, but prices of some nicotinoid insecticides TC dip mainly due to slow sales.

This month, two projects broke the ground. On 12 Aug., groundbreaking ceremony for key projects in Jingzhou Economic Development Zone in Q3 2022 was held in Hubei Province. Hubei Jinzhu Biological Agriculture Co. Ltd. (Hubei Jinzhu)'s 3,800 t/a pesticide technical and 20,000 t/a formulation project (phase I) is one of the projects. On 16 Aug., the groundbreaking ceremony for Shandong Luba's high-end green chemicals project was held in Dezhou City, Shandong Province. Phase I project will build production lines for malathion TC, dimethoate TC and other products. And new capacity for insecticides is in the pipeline. Hubei Jinghesheng plans to build capacity of 3,000 t/a thiamethoxam, 2,000 t/a clothianidin, 1,000 t/a pymetrozine, 600 t/a flonicamid and other intermediates; Shangyu Xinyinbang will build 400 t/a methoxyfenozide TC project.

In terms of policy, Jiangsu, a major pesticide-producing province, has paid attention to production safety of hazardous chemicals. In late July, the Jiangsu Provincial Work Safety Committee issued Twelve Key Measures for Prompting Hazardous Chemical Production and Storage Enterprises to Fulfil Primary Responsibility in Jiangsu Province for the purpose of preventing and reducing various kinds of production safety accidents at the source. On 9 Aug., the Office of Jiangsu Provincial Work Safety Committee presided over a video meeting, calling for further proceeding with the hundred-day campaign on hazardous chemicals and strengthening production safety precautions during high-temperature days in the summer.

*The USD/CNY exchange rate in this newsletter is USD1.00 = CNY6.7467 on 1 Aug., 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

### Hubei Jinghesheng to build 13.6kt/a pesticides TC and intermediates project

Summary: On 28 July, the EI report of Hubei Jinghesheng's 13,600 t/a pesticides TC and intermediates project was published by local authorities. The company plans to build capacity of 3,000 t/a thiamethoxam, 2,000 t/a clothianidin, 1,000 t/a pymetrozine, 600 t/a flonicamid and other intermediates.

On 28 July, the environmental impact (EI) report of Hubei Jinghesheng Biotechnology Co., Ltd. (Hubei Jinghesheng)'s 13,600 t/a pesticides TC and intermediates project was published by the authorities of Jingzhou City. The company expects an annual output value of some USD177.86 million (RMB1.20 billion), once the project is put into operation at full capacity.

#### Overview of the project

- Product & designed capacity:
  - Insecticides: 3,000 t/a Thiamethoxam TC, 2,000 t/a clothianidin TC, 1,000 t/a pymetrozine TC, 600 t/a flonicamid TC;
  - Intermediates: 4,000 t/a 2-Chloro-5-chloromethylthiazole, 1,200 t/a N,N,N',N'-tetramethylethylenediamine, 1,000 t/a chloroacetone, 800 t/a 2-methylbenzoyl cyanide. Among them, 2-chloro-5-chloromethylthiazole is an important intermediate for the production of thiamethoxam and clothianidin.
- Construction content: Altogether eight production lines, warehouses, supporting utilities and environmental protection facilities
- Location: Lingang Industrial Park, Songzi City, Jingzhou City, Hubei province
- Total investment: USD74.11 million (RMB500 million)
- Total floor area: 11.91 ha, of which 1.84 ha building area
- Construction period: 30 months

The planned products thiamethoxam and clothianidin are nicotinoid insecticides. Thiamethoxam, a second generation nicotinoid insecticide, debuted in 1991, and clothianidin, the third generation, was launched in 2002. Both can control agricultural pests such as aphids, thrips, whiteflies and flea beetles, as well as underground insects like root maggots, grubs. Pesticide products containing the two active ingredients work in three ways: contact killing, stomach poisoning, and systemic damage. Clothianidin has better quick-acting performance; for clothianidin-containing pesticides, it takes less than one hour to see obvious result after application, while for thiamethoxam-containing pesticides, it usually takes 24 hours since thiamethoxam has to be converted into clothianidin before it can take effect. Besides, pests have developed stronger resistance to thiamethoxam as it hit the market earlier and has been used in larger amount.

Hubei Jinghesheng was established in 2021 and is mainly engaged in production, wholesaling and retailing of pesticides. This 13,600 t/a project is the phase-one program the company planned. It has reserved 3 ha (45 mu) land for the phase-two 3,000 t/a glufosinate-ammonium and intermediates project, which is expected to start in 2023.

### Hebei Di'annong to build new capacity for insecticides TC

Summary: Hebei Di'annong has planned to build capacity for insecticides TC and supporting intermediates, including 5,000 t/a acetamiprid TC, 3,000 t/a bifenthrin TC, 2,000 t/a thiamethoxam TC, 1,500 t/a pyridaben TC, 1,000 t/a clothianidin TC, 1,000 t/a chlorantraniliprole TC.





In late July, CCM learned from Hebei Di'annong Biotechnology Co., Ltd. (Hebei Di'annong) that it had planned to build new capacity for insecticides TC and supporting intermediates, including:

- Insecticides: 5,000 t/a Acetamiprid TC, 3,000 t/a bifenthrin TC, 2,000 t/a thiamethoxam TC, 1,500 t/a pyridaben TC, 1,000 t/a clothianidin TC, 1,000 t/a chlorantraniliprole TC;
- Intermediates: 5,000 t/a 2-Chloro-5-(chloromethyl)pyridine, 2,600 t/a 2-chloro-5-chloromethylthiazole, 1,500 t/a 2-methyl-3-biphenylmethanol, 800 t/a 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylic acid, 600 t/a 2-amino-5-chloro-N,3-dimethylbenzamide.

The company broke ground on the project on 30 June 2022.

Among the intermediates planned by Hebei Di'annong, 2-methyl-3-biphenylmethanol is an irreplaceable raw material for the production of bifenthrin TC, 2-chloro-5-(chloromethyl)pyridine is a necessary intermediate for the production of acetamiprid TC, 2-chloro-5-chloromethylthiazole is a key intermediate for the production of thiamethoxam TC and clothianidin TC, and 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylic acid and 2-amino-5-chloro-N,3-dimethylbenzamide are the intermediates for the production of chlorantraniliprole TC.

Hebei Di'annong is a wholly-owned subsidiary of Hebei Deyi Technology Group Co., Ltd. (Hebei Deyi). It is located in Lingang Economic and Technological Development Zone, Bohai New Area, Cangzhou City, Hebei Province. Hebei Deyi is committed to developing into a large-scale modern pesticide-focused company, and plans to build Hebei Di'annong into a big insecticide TC supplier.

It is worth mentioning that stricter environmental protection and work safety supervisions have become the two major factors affecting China's pesticide industry in recent years, as China has paid more attention to the environment and safety. Such supervision efforts once greatly affected the supply of bifenthrin TC, but honestly speaking, these challenges have also helped lead the producers of bifenthrin TC onto a healthy development path.

Currently, major bifenthrin TC producers in China are ADAMA Huifeng (Jiangsu) Co., Ltd. (ADAMA Huifeng), Jiangsu Lianhe Chemical Technology Co., Ltd. (Jiangsu Lianhe), Anhui Biocompounds Chemicals Co., Ltd. (Anhui BPI Chemicals), Jiangsu Youjia Crop Protection Co., Ltd. (Jiangsu Youjia), Jiangsu Chunjiang Runtian Agrochemical Co., Ltd. (Chunjiang Runtian), Weifang Runnong Chemical Co., Ltd. (Weifang Runnong), etc.

ADAMA Huifeng's 1,000 t/a bifenthrin TC line, Jiangsu Lianhua's 1,500 t/a bifenthrin TC line and Anhui BPI Chemicals' 150 t/a bifenthrin TC line have resumed production after renovation and upgrading. On the contrary, the lines in Jiangsu Huangma Agrochemicals Co., Ltd. and Yancheng South Chemical Co., Ltd., each with 500 t/a bifenthrin TC capacity, were shut down out of environmental protection and production safety concerns.

Jiangsu Youjia and Chunjiang Runtian have expanded their bifenthrin TC capacity in the past few years. Jiangsu Youjia increased its capacity to 3,800 t/a from the previous 800 t/a; the new production lines entered trial production in early 2022. Chunjiang Runtian expanded its capacity to 2,400 t/a from 800 t/a, and the lines were put into production in 2020. As to Weifang Runnong, its 1,000 t/a





bifenthrin TC line was put into production in 2020.

### Shangyu Xinyinbang to build 400 t/a methoxyfenozide TC production capacity

Summary: On 16 Aug., the EI report of Shangyu Xinyinbang's 400 t/a methoxyfenozide TC project was published by local authorities. Along with the new construction plan, the company declares cancellation of the previously approved 20,000 t/a glyphosate TC (converted to 100% AI) project and 100 t/a cyproconazole TC project.

On 16 Aug., the environmental impact (EI) report of Shaoxing Shangyu Xinyinbang Biochemical Co., Ltd. (Shangyu Xinyinbang)'s 400 t/a methoxyfenozide TC project was published by local authorities. The project will be built in Hangzhou Bay Shangyu Economic and Technological Development Zone, Shaoxing City, Zhejiang Province, with a total investment of USD4.45 million (RMB30 million). Along with the new construction plan, the company has declared cancellation of the previously approved 20,000 t/a glyphosate TC (converted to 100% AI) project & 100 t/a cyproconazole TC project.

Methoxyfenozide is a second-generation diacylhydrazine insect growth regulator, with high selective insecticidal activity against lepidopteran pests. It kills pests mainly by stomach-poisoning, with some degree of contact toxicity to insect eggs. But it exhibits no permeability or systemic activity through the phloem. Diacylhydrazine insecticides can act as an ecdysone agonist that causes lepidopteran larvae to stop feeding and go into a precocious molt, leading eventually to death. So they can be used throughout the larval phase of targeting pests. The mechanism of action is opposite to that of inhibitors to insect molting. Methoxyfenozide can stay effective at low dosage; it is stable, efficient and safe to human and animals. Its main control targets are the larvae of lepidopteran pests like beet armyworm, cabbage armyworm, *Spodoptera litura*, cabbage caterpillar, cotton bollworm, *Lithocolletis ringoniella*, American white moth, *Dendrolimus spp.*, geometrid moth and rice stem borers. It can be applied on cruciferous vegetables, solanaceous vegetables, cucurbits, cotton, apple, peach, rice, trees, etc.

Shangyu Xinyinbang is engaged in the production of various pesticide technical products covering herbicides, insecticides and fungicides. As of 17 Aug., 2022, the company had obtained 12 insecticide registrations—five for technical products and seven for formulations.

**TABLE 1:** Shangyu Xinyinbang's insecticide TC registrations, as of 17 Aug., 2022

No.	Product	Content	Expiry date
1	Bifenazate TC	97%	2026/5/30
2	Bifenthrin TC	95%	2023/12/10
3	Lambda-cyhalothrin TC	95%	2023/11/18
4	Pymetrozine TC	98%	2022/12/19
5	Methoxyfenozide TC	98.50%	2022/10/30

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







## Shandong Luba's green chemicals project breaks ground

Summary: On 16 Aug., the groundbreaking ceremony for Shandong Luba's high-end green chemicals project was held in Dezhou City, Shandong Province. Phase I project will build production lines for malathion TC, dimethoate TC and other products.

On 16 Aug., the groundbreaking ceremony for Shandong Luba Chemical Co., Ltd. (Shandong Luba)'s 48,000 t/a high-end green chemicals project was held in Pingyuan County, Dezhou City, Shandong Province. This project will be carried out by its newly-founded subsidiary Shandong Hengdong Biotechnology Co., Ltd. (Shandong Hengdong). Previously on 6 May 2022, local authorities released some details of this project:

- Location: Chemical park of Pingyuan economic development zone, Dezhou City, Shandong Province.
- Construction content: The proposed 48,000 t/a project will be constructed by multiple phases. The first phase will build production lines of 5,000 t/a malathion TC, 5,000 t/a dimethoate TC and 2,000 t/a benzoylphenylurea insecticides, as well as their supporting facilities.
- Total investment: USD302.48 million (RMB2,040.72 million)

The company expects an annual sales value of USD563.24 million (RMB3,800 million), once the whole project is put into full production.

Established in Dec.1997 and now with registered capital of USD57.81 million (RMB390 million), Shandong Luba is an agrochemical enterprise engaged in R&D, pesticide technical synthesis, fine chemicals manufacturing, pesticide formulation processing, and pesticide sale. Currently, the company has four production bases covering an area of more than 80 ha, equipped with several automated and intelligent production lines for the production of pesticide technical, intermediates and formulations. Its subsidiaries Dezhou Luba Fine Chemical Co., Ltd. (Dezhou Luba) and Jinan Luba Pesticides Co., Ltd. (Jinan Luba) hold registration certificates of a variety of insecticide products. Dezhou Luba has a branch in the same chemical park with Shandong Hengdong, which is an accredited chemical park by the provincial government. Currently, Dezhou Luba mainly produces malathion TC, benzoylphenylurea insecticides, diquat TC and some other TC & formulation products.

**TABLE 2:** Insecticides registrations held by Shandong Luba and its subsidiaries, as of 17 Aug., 2022

No.	Registrant	Insecticides TC	Insecticide formulations	Note
1	Shandong Luba	2	0	TC: 97% chlorpyrifos and 96% chlorfluazuron
2	Dezhou Luba	8	16	TC: 97.9% diflubenzuron, 95% lambda-cyhalothrin, 96% dimethoate, 95%, 90%, 85% malathion, 94% chlorfluazuron, 97% imidacloprid, 96% lufenuron and 97% chlorpyrifos
3	Jinan Luba	0	44	/
<b>Total</b>		<b>10</b>	<b>60</b>	<b>/</b>

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





## Market Analysis

### Prices of most insecticides TC keep stable in late Aug.

Summary: The summer heat has affected overall operating rate of pesticide industry, and impacted market demand in general. In late Aug., prices of most insecticides TC keep stable, though there are price rises in some individual products and drops in some nicotinoid insecticides TC.

This summer, unprecedented heat hit many regions in China, which led Sichuan Province to roll out power rationing policy to ensure sufficient power supply to residents in mid-to-late Aug., and some other provinces to take similar measures to temporarily suspend some production. Overall, lowered operating rate has impacted demand for pesticides. In late Aug., prices of most insecticides TC keep stable. Specifically, prices of most organophosphorus insecticides TC and pyrethroid insecticides TC have little fluctuation, while prices of some nicotinoid insecticides TC dip mainly due to slow sales.

**Organophosphorus insecticides:** Most organophosphorus insecticides TC have stable price, but the price of chlorpyrifos TC increases mainly due to tight supply, though major chlorpyrifos TC manufacturers have operated normally. Considering a relatively slack demand for these insecticides, ex-works prices of organophosphorus insecticides TC may still keep stable in the short term.

**Pyrethroid insecticides:** Ex-works prices of pyrethroid TC insecticides are relatively stable, and some products have slightly-lowered prices as it comes to traditional slack season for insecticides of this category. Bifenthrin TC and lambda-cyhalothrin TC have MoM price decreases of less than 1%. Considering a slack demand for pyrethroid insecticides, price fall is expected for products under this category in the short term.

**Nicotinoid insecticides:** Ex-works prices of some nicotinoid insecticides TC decline. For instance, acetamiprid TC price drop by over 3% MoM, mainly because of slow downstream sales. However, prices of some important intermediates keep stable, such as 3-methyl-4-nitroiminoperhydro-1,3,5-oxadiazine, 2-nitroaminoimidazoline, ethyl N-cyanoethanimideate, which might prop up ex-works prices of nicotinoid insecticides TC and keep them stable for a while.





TABLE 3: Ex-works prices of major insecticide TC products in China in mid-to-late Aug. 2022

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	MoM change
Organophosphorus insecticide	95% Chlorpyrifos technical	53,400	7,915	3.29%
	90% Phoxim technical	43,000	6,373	0.00%
	90% Profenofos technical	82,665	12,253	0.00%
	90% Malathion technical	37,000	5,484	0.00%
Pyrethroid insecticide	94% Cypermethrin technical	83,000	12,302	0.00%
	97% Bifenthrin technical	279,000	41,354	-0.36%
	95% Lambda-cyhalothrin technical	201,000	29,792	-0.99%
Nicotinoid insecticide	95% Acetamiprid technical	146,500	21,714	-3.30%
	97% Imidacloprid technical	156,900	23,256	-0.38%
Antibiotic insecticide	95% Abamectin technical	595,000	88,191	-0.50%
	70% Emamectin benzoate technical	577,500	85,597	-0.72%

Note: MoM change is calculated with RMB price.

Source: CCM





## Pest

### Locusts to occur sporadically in general in Heilongjiang

Summary: In late July, Plant Quarantine and Plant Protection Station of Heilongjiang Province released a forecast on locust occurrence—in general, the province is expected to experience sporadic occurrence of locusts this year. Major threats come from late-attackers like *Epacromius coerulipes* and Chinese rice grasshopper.

In late July, Plant Quarantine and Plant Protection Station of Heilongjiang Province released a forecast on general locust occurrence in 2022. Based on comprehensive analysis of monitoring data of crop diseases and pests, insect base and weather conditions, the station expected an overall sporadic occurrence of locusts in the province this year, and threats mainly coming from late-attackers such as *Epacromius coerulipes* and Chinese rice grasshopper. Thanks to abundant rainfall since spring, grassland vegetation has grown well in Heilongjiang. Locusts are less likely to migrate into farmland due to abundant food sources and low population density. With increasing precipitation in the coming months, rivers may overflow grasses, and then locusts might attack nearby farmland; such a movement would also happen after grasses get mowed—these are possible in some counties. Besides, counties in the central and western regions should continue to monitor the *Locusta migratoria* L.

#### Recommended prevention and control measures

- In low- and moderate-density fields (the number of locusts is below 20 per square meter), lakes, reservoirs, source water protection areas and natural reserves, microbial pesticides or botanical pesticides are recommended, such as *Nosema locustae*, *Metarhizium anisopliae*, *Beauveria bassiana*, matrine, azadirachtin. And *Nosema locustae* can be applied in combination with inhibitors of insect molting.
- When locusts in higher density migrate into farmland to cause damage, chemical pesticides such as malathion, imidacloprid and mixed formulations malathion-beta-cypermethrin, abamectin-triazophos, can be used for emergency control.
- In large, contiguous areas with high-density locust population, big ground spraying machines or agriculture aircraft should be used to deliver timely, effective and unified prevention & control.





## Import and Export

### China's lambda-cyhalothrin exports to major destinations in Jan.–May 2022

Summary: According to export data from Tranalysis, in Jan.–May 2022, China exported 2,338.40 tonnes (actual volume) or 1,733.04 tonnes (converted to 100% AI) of lambda-cyhalothrin products to 21 major destinations including the US, Belgium and India.

In Jan.–May 2022, China exported 2,338.40 tonnes (actual volume) or 1,733.04 tonnes (converted to 100% AI) of lambda-cyhalothrin products to 21 major destinations including the US, Belgium and India, according to the import and export data updated to 8 Aug. from Tranalysis.

Details of China's lambda-cyhalothrin exports to major destinations in Jan.–May 2022 are as follows:

#### **Lambda-cyhalothrin formulation**

Specification for export: 25g/L EC, 50g/L EC, 50g/L ME, 8% ME, 250g/L CS, 10% SC, 25g/L EW

Major destination: China exported 576.06 tonnes (actual volume, the same hereafter) of lambda-cyhalothrin formulations to major destinations, at an average price of USD7.86/kg. In particular, 145.15 tonnes went to Brazil, which accounts for 25.20% of China's total lambda-cyhalothrin formulation exports during this period.

Major exporter: The top three exporters, Shanghai E-tong Chemical Co., Ltd., Agro Lead Co., Ltd. and China Jiangsu International Economic and Technical Cooperation Group, Ltd., exported 263.12 tonnes of lambda-cyhalothrin formulations in combination, making up 45.68% of China's total lambda-cyhalothrin formulation exports during this period.

#### **Lambda-cyhalothrin TC**

Specification for export: 95% TC, 96% TC

Major destination: China exported 1,762.34 tonnes of lambda-cyhalothrin TC to major destinations, at an average price of USD32.11/kg. Among them, the US was the largest export destination with a volume of 742.43 tonnes, taking up 42.13% of China's total lambda-cyhalothrin TC exports during this period.

Major exporter: The top three lambda-cyhalothrin TC exporters, Youth Chemical Co., Ltd., Jiangsu Changlong Agrochemical Co., Ltd. and Nufarm Chemical (Shanghai) Co., Ltd., together exported 1,372.63 tonnes of lambda-cyhalothrin TC, making up 77.89% of China's total lambda-cyhalothrin TC exports during this period.



**TABLE 4:** Exports of lambda-cyhalothrin formulation products from China, Jan.–May 2022

No.	Specification	Volume, kg	Average price, USD/kg
1	25g/L EC	280,030	4.41
2	250g/L CS	158,934	15.28
3	50g/L EC	72,536	5.30
4	10% SC	33,320	5.43
5	25g/L EW	16,000	14.28
6	50g/L ME	11,168	3.55
7	8% ME	4,070	7.52
<b>Total</b>		<b>576,059</b>	<b>7.86</b>

Note: The data, sourced from Tranalysis, were updated on 8 Aug., 2022.

Source: Tranalysis

**TABLE 5:** Exports of lambda-cyhalothrin TC products from China, Jan.–May 2022

No.	Specification	Volume, kg	Average price, USD/kg
1	95% TC	1,599,120	32.17
2	96% TC	163,220	31.46
<b>Total</b>		<b>1,762,340</b>	<b>32.11</b>

Note: The data, sourced from Tranalysis, were updated on 8 Aug., 2022.

Source: Tranalysis



**TABLE 6:** Export volume of lambda-cyhalothrin formulation products to major destinations from China, Jan.–May 2022

No.	Destination	Volume, kg
1	Brazil	145,152
2	Tanzania	114,000
3	Bangladesh	81,965
4	Kazakhstan	53,930
5	Bolivia	46,034
6	Russia	32,320
7	Mexico	20,000
8	Uzbekistan	17,040
9	Kenya	16,168
10	Paraguay	16,000
	Others	33,449
	<b>Total</b>	<b>576,059</b>

Note: The data, sourced from Tranalysis, were updated on 8 Aug., 2022.

Source: Tranalysis



**TABLE 7:** Export volume of lambda-cyhalothrin TC products to major destinations from China, Jan.–May 2022

No.	Destination	Volume, kg
1	The US	742,430
2	Belgium	600,000
3	India	170,000
4	Pakistan	87,050
5	Russia	73,960
6	Turkey	46,950
7	Vietnam	19,750
8	The Philippines	14,600
9	Indonesia	4,800
10	Brazil	2,000
	Others	800
	<b>Total</b>	<b>1,762,340</b>

Note: The data, sourced from Tranalysis, were updated on 8 Aug., 2022.

Source: Tranalysis







TABLE 8: Major exporters of lambda-cyhalothrin formulation products from China, Jan.–May 2022

No.	Exporter	Volume, kg
1	Shanghai E-tong Chemical Co., Ltd.	114,000
2	Agro Lead Co., Ltd.	100,800
3	China Jiangsu International Economic and Technical Cooperation Group, Ltd.	48,320
4	Ningbo Globaleading International Logistics Corp.	44,352
5	Jiangsu Trustchem Co., Ltd.	37,156
6	Shandong Weifang Rainbow Chemical Co., Ltd.	33,782
7	Zhengbang (Hong Kong) Agriculture Limited	33,320
8	Nanjing Fengshan Chemical Co., Ltd.	29,120
9	Nanjing Essence Fine Chemical Co., Ltd.	18,566
10	Nanjing Egrow Crop Protection Co., Ltd.	17,040
	Others	99,602
	<b>Total</b>	<b>576,059</b>

Note: The data, sourced from Tranalysis, were updated on 8 Aug., 2022.

Source: Tranalysis



**TABLE 9:** Major exporters of lambda-cyhalothrin TC products from China, Jan.–May 2022

No.	Exporter	Volume, kg
1	Youth Chemical Co., Ltd.	1,172,794
2	Jiangsu Changlong Agrochemical Co., Ltd.	103,320
3	Nufarm Chemical (Shanghai) Co., Ltd.	96,516
4	Hebei Bestar Commerce and Trade Co., Ltd.	54,000
5	Nanjing Bangnong Chemical Co., Ltd.	35,000
6	Shanghai Agrotree Chemical Co., Ltd.	24,000
7	Hailir Pesticides and Chemicals Group Co., Ltd.	22,350
8	Jiangsu Xinnuo Chemicals Co., Ltd.	20,000
9	Jiangsu Trustchem Co., Ltd.	19,080
10	China Jiangsu International Economic and Technical Cooperation Group, Ltd.	19,050
	Others	196,230
	<b>Total</b>	<b>1,762,340</b>

Note: The data, sourced from Tranalysis, were updated on 8 Aug., 2022.

Source: Tranalysis



## Policy

### **Jiangsu urges hazardous chemical production and storage enterprises to fulfil primary responsibility**

Summary: In late July, the Jiangsu Provincial Work Safety Committee issued *Twelve Key Measures for Prompting Hazardous Chemical Production and Storage Enterprises to Fulfil Primary Responsibility in Jiangsu Province* for the purpose of preventing and reducing various kinds of production safety accidents at the source.

In late July, the Jiangsu Provincial Work Safety Committee issued *Twelve Key Measures for Prompting Hazardous Chemical Production and Storage Enterprises to Fulfil Primary Responsibility in Jiangsu Province*. The Measures calls for better fulfilment of primary responsibility in hazardous chemical enterprises so as to cut down work safety accidents at the source. It proposes:

- In terms of responsibility implementation, key persons in charge of these enterprises shall be required to duly fulfil their responsibilities. They shall organise a comprehensive inspection on production safety and hold a special meeting on production safety at least once a quarter. Besides, safety production responsibility system should be required among all workers in hazardous chemical producers.
- At a more basic level, these enterprises are required to operate in accordance with laws and regulations. It is prohibited to use equipment and production processes that endanger production safety and thus have been ordered to be eliminated by central or provincial governments. These producers should promptly update equipment and processes that are obsolete and outdated.
- Actively prompt all the enterprises to reach provincial safety production Level II standard. The enterprises are encouraged to establish a digitalised dual prevention mechanism consisting of graded management & control of safety risks and investigation & treatment of hidden dangers. For production lines or storage equipment having relation with "two primaries and one major" (hazardous chemical techniques under primary supervision, hazardous chemicals under primary supervision, and major hazard sources of hazardous chemicals), equipment operators should inspect once every hour; operators of other production lines should inspect once every two hours.
- Intrinsic safety should be strengthened in these hazardous chemical production and storage enterprises, by adopting new processes, equipment, technology and materials, as well as through making use of intelligent, digital and other advanced technologies. Key chemical (hazardous chemical) enterprises should build up and apply full-process automation system.

The Measures also has suggests that hazardous chemical production and storage enterprises should strengthen safety management on dangerous operations, employ professionals with necessary knowledge and experience, beef up safety education and training, invest due amount in safety production practices, and improve emergency rescue capability.

### **Sichuan expands rationing of industrial power consumption**

Summary: On 14 Aug., Sichuan Provincial Economic and Information Department and State Grid Sichuan Electric Power Company jointly issued an emergency notice announcing expansion of power rationing in industrial power users in 19 cities and prefectures (excluding Panzhihua City and Liangshan Yi Autonomous Prefecture) to ensure sufficient power supply to residents.

On 14 Aug., to meet increasing residential power demand in the scorching summer heat, Sichuan Provincial Economic and Information Department, together with State Grid Sichuan Electric Power Company, issued the *Emergency Notice on Expanding Power Rationing in Industrial Enterprises to Support Residential Power Use*. The emergency notice decided that all industrial power users (including key industrial enterprises in the white list whose operations should be maintained and special care be given to smooth supply chain operation





and transportation of goods and materials) covered by orderly power use plan made by Sichuan power grid, in 19 cities and prefectures under the jurisdiction of Sichuan, excluding Panzhihua City and Liangshan Yi Autonomous Prefecture though, should suspend production (but protective load must be retained) for six days from 15 Aug. to 20 Aug., to ensure sufficient power supply to residents. The notice requires that local governments should inform enterprises to make production adjustments, arrange for protective load, and deliver fast execution.

Accordingly, Sichuan-based listed pesticide manufacturer Sichuan Guoguang Agrochemical Co., Ltd. (Sichuan Guoguang) issued two announcements on production adjustments in two subsidiaries. Its wholly-owned subsidiary Sichuan Run'er Technology Co., Ltd. (Sichuan Run'er), located in Jianyang City would suspend its production lines from 15 Aug. to 25 Aug. Besides, another wholly-owned subsidiary Chongqing Yi'er Shuangfeng Technology Co., Ltd. (Yi'er Shuangfeng), located in Chongqing Municipality (not belongs to Sichuan Province, but very close), has also been affected by local power supply shortage, and would suspend from 17 Aug. to 24 Aug. According to Sichuan Guoguang, the temporary shutdown of Sichuan Run'er and Yi'er Shuangfeng will not significantly impact the company's performance due to adequate product stock. Besides, the company can activate its own emergency power sources to meet the demand of urgent product orders.





## Registration

**ICAMA releases 24 insecticide products to be approved of registration in late July**

Summary: On 29 July, ICAMA publicised the sixth-batch list of pesticide products to be approved of registration, including 24 insecticide products, of which 8 are hygienic insecticides.

On 29 July, the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA) publicised the sixth-batch list of pesticides to be approved of registration, including 24 insecticide products, of which 8 are hygienic insecticides. Popular active ingredients used in these products include abamectin, abamectin-aminomethyl and thiamethoxam. These products are applicable on cabbage, citrus trees, timber. etc.; their control targets are fly (larva), citrus rust mite, cockroach, etc.

**TABLE 10:** Insecticide products to be approved of registration by toxicity released on 29 July, 2022

No.	Toxicity	Number
1	Low	14
2	Mild	4
3	Moderate	3
4	Moderate (TC is high)	2
5	Low (TC is high)	1
<b>Total</b>		<b>24</b>

Source:ICAMA

**TABLE 11:** Insecticide products to be approved of registration by applicable crop released on 29 July, 2022

No.	Applicable crop	Number
1	Cabbage	4
2	Indoor	4
3	Citrus trees	3
4	Outdoor (breeding place)	3
5	Timber, soil	1
6	Rice	1
<b>Total</b>		<b>16</b>





Note: Eight products are applied without specified applicable crop.

Source: ICAMA

TABLE 12: Insecticide products to be approved of registration by form released on 29 July, 2022

No.	Form	Number
1	SC	7
2	EC	5
3	WG	3
4	RB	2
5	SL	2
6	CS	1
7	AE	1
8	GR	1
9	TB	1
10	EW	1
<b>Total</b>		<b>24</b>

Source: ICAMA



**TABLE 13:** Insecticide products to be approved of registration by control target released on 29 July, 2022

No.	Control target	Number
1	Fly (larva)	3
2	Citrus rust mite	2
3	Cockroach	2
4	Diamondback moth	1
5	<i>Attagenus minutus</i>	1
6	<i>Spodoptera litura</i>	1
7	Striped flea beetle	1
8	Aphid	1
9	<i>Chilo suppressalis</i>	1
10	Termite	1
11	Scale insect	1
12	Mosquito, fly, cockroach	1
<b>Total</b>		<b>16</b>

Note: Eight products are applied without specified control target.

Source: ICAMA



**TABLE 14:** Insecticide products to be approved of registration by registrant released on 29 July, 2022

No.	Registrant	Number
1	Shandong Weifang Rainbow Chemical Co., Ltd.	3
2	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	2
3	Bayer CropScience (China) Co., Ltd.	1
4	Jingbo Agrochemicals Technology Co., Ltd.	1
5	Jiangsu Aijin Crop Science and Technology Group Co., Ltd.	1
6	Guangdong Laya Chemical Co., Ltd	1
7	Guangdong Goodful Biotechnology Co., Ltd.	1
8	Qingdao Zhengdao Pharmaceutical Co., Ltd.	1
9	Guangdong Zhenge Biotechnology Co., Ltd.	1
10	North China Pharmaceutical Group Aino Co., Ltd.	1
11	Guangxi Tianyuan Biochemistry Co., Ltd.	1
12	Jiangxi Zhongxun Agro-Chemical Co., Ltd.	1
13	Guangzhou Cheerwin Daily Chemicals Co., Ltd.	1
14	Ningbo Sunjoy Agrosience Co., Ltd.	1
15	Hebei Veyong Bio-Chemical Co., Ltd.	1
16	Fujian Green Shell Bio-pesticide Co., Ltd.	1
17	Shandong Tiandao Bio-Engineering Co., Ltd.	1
18	Hebei Xingbai Agricultural Technology Co., Ltd.	1
19	Xuchang Jian'an Changsheng Daily Chemical Co., Ltd.	1
20	Henan Vision Technology Co., Ltd.	1
21	Hunan Agricultural University Heartale Agrochem Co., Ltd.	1
<b>Total</b>		<b>24</b>

Source: ICAMA





TABLE 15: Insecticide products to be approved of registration by active ingredient &amp; content released on 29 July, 2022

No.	Active ingredient & content	Number
1	10% Abamectin	1
2	3% Abamectin·7% lufenuron	1
3	3% Abamectin·9% lufenuron	1
4	72g/L Abamectin	1
5	2.15% Imidacloprid	1
6	20g/L Acetamiprid·20g/L bifenthrin	1
7	500g/L Chlorpyrifos	1
8	20% Dinotefuran·10% pyriproxyfen	1
9	0.5% Beta-cyfluthrin·2.5% clothianidin	1
10	26.4% Abamectin-aminomethyl	1
11	3.5% Abamectin-aminomethyl	1
12	5% Abamectin-aminomethyl	1
13	95% Petroleum oil	1
14	5% Bifenthrin	1
15	5% Bifenthrin·10% flonicamid	1
16	1,000g/L Malathion	1
17	0.16% Imiprothrin·0.48% d-cyphenothrin	1
18	22.5% Thiamethoxam·7.5% pyriproxyfen	1
19	4% Thiamethoxam·5% pyriproxyfen	1
20	75% Thiamethoxam	1
21	1 billion PIB/mL Spodopteralitura NPV	1
22	200g/L Ethiprole	1
23	0.5% Indoxacarb	1





24	238g/L Empenthrin	1
<b>Total</b>		<b>24</b>

Source: ICAMA





## News in Brief

### **CAC Shanghai cooperates with Syngenta to promote cyproflanilide commercialisation**

In late July, CAC Shanghai International Co., Ltd. (CAC Shanghai) signed an in-depth strategic cooperation agreement with Syngenta Group China (Syngenta) to promote commercialisation of cyproflanilide in China. Cyproflanilide (CAS number: 2375110-88-4) is the first new compound with independent intellectual property developed by CAC Shanghai's parent company CAC Nantong Chemical Co., Ltd. The company also has a sound patent portfolio centred on the active ingredient, covering mixture, application, formulation products, production process, crystalline forms and intermediates. It is worth noting that cyproflanilide product will obtain registration and hit the market in China around 2024.

Cyproflanilide is highly effective against striped rice borer and rice leaf roller; it could provide a green solution to the control of these two pests. It is also highly effective against pests such as diamondback moth, beet armyworm, flea beetle and thrip, and is applicable to control resistant pests on vegetables, fruit trees and other crops.

### **Hunan Haili: subsidiaries' projects progress well in H1 2022**

On 2 Aug., Hunan Haili Chemical Industry Co., Ltd. (Hunan Haili) released the 2022 semi-annual report. During this reporting period:

- The subsidiary Haili Guixi New Material Technology Co., Ltd. had expanded its capacity of carbosulfan TC to 6,000 t/a through process optimisation and equipment improvement. Its pirimiphos-methyl TC project had gone through all the formalities needed and it is expected that equipment installation and commissioning will be finished in 2023.
- The subsidiary Ningxia Haili Technology Co., Ltd. had obtained use right of a piece of 40.42 ha land in the New Material Park of Qingtongxia Industrial Park, Qingtongxia City, Ningxia Hui Autonomous Region. Currently, construction of factory buildings and supporting facilities is progressing steadily. The company strives to put some lines into production in 2023.

### **Chongqing Chemical Pesticides to build capacity for insecticide formulations**

On 4 Aug., environmental impact assessment information concerning Chongqing Chemical Pesticides (Group) Co., Ltd. (Chongqing Chemical Pesticides)'s packaging line intelligent transformation project (phase I) was published by local authorities. Chongqing Chemical Pesticides will spend USD423 thousand (RMB2.85 million) on the project, of which USD22.23 thousand (RMB150 thousand) will be invested in environmental protection. It plans to build two production lines for raw material blending and subpackaging—one 1,500 t/a SP & WP line and one 900 t/a SC line.



**TABLE 16:** Planned insecticide formulation products in Chongqing Chemical Pesticides' new project

No.	Product	Capacity, t/a	Source of raw materials
1	Cartap 50% SP	700	Supply by itself
2	Acephate 75% SP	170	Outsourcing
3	Monosultap 80% SP	130	Supply by itself
4	Imidacloprid·monosultap 50% WP	500	Imidacloprid TC will be outsourced, while monosultap TC is self-produced.
5	Spirodiclofen 29% SC	450	Outsourcing
6	Pyridaben·spirodiclofen 36% SC	450	Outsourcing

Source:EI report of Chongqing Chemical Pesticides' packaging line intelligent transformation project (phase I)

### Hebei releases fourth-batch list of approved chemical parks

On 8 Aug., the Department of Industry and Information Technology of Hebei Province released the fourth-batch list of approved chemical parks/zones; altogether seven chemical concentration zones are on the list. So far Hebei has 29 approved chemical parks or chemical concentration zones.

**TABLE 17:** The approved chemical parks/zones (fourth batch) in Hebei Province

No.	Chemical park/chemical concentration zone	Location
1	Shenze economic development zone (southern part) chemical concentration zone	Shijiazhuang City
2	Petrochemical park of Zhongjie industrial park, Bohai New Area	Cangzhou City
3	Dongxing industrial zone of Nandagang industrial park, Bohai New Area	Cangzhou City
4	Jizhou high-tech industrial development zone (western part) chemical concentration zone	Hengshui City
5	Shenzhou economic development zone (southern part) chemical industry concentration zone	Hengshui City
6	Petrochemical materials park, high-tech industrial development zone of Jingxian County	Hengshui City
7	Xuyang economic development zone chemical industrial park	Xingtai City

Source:The Department of Industry and Information Technology of Hebei Province

### Jiangsu proceeds with hundred-day safe production campaign of hazardous chemicals

On 9 Aug., the Office of Jiangsu Provincial Work Safety Committee presided over a video meeting. The meeting called for further proceeding with the hundred-day campaign on hazardous chemicals, as well as strengthening production safety precautions during high-



temperature days in the summer.

Old equipment upgrading was stressed in the meeting. And hazardous chemicals enterprises adopting high-risk production processes and having Level I & Level II major hazard sources were required to equip themselves with distributed automatic control system, emergency shutdown system and safety instrumented system, and have these systems optimised.

More detailed precautions were given to guide chemical enterprises towards safe production during high-temperature days in the summer. Enterprises should be urged to better manage security risks that may come from chemicals that are easily decomposed by heat or react with water. In large oil and gas storage bases, safety management should be strengthened. When it comes to hazardous chemical transportation, management of loading and unloading practices should be improved, workload during high-temperature hours in the daytime be reasonably arranged, and hazardous chemical transport enterprises be prompted to beef up check and maintenance of their vehicles. Chemical parks and chemical enterprises should strictly implement the system of company leaders as shift leader, and 24-hour duty system to boost emergency handling.

### **Sichuan Guoguang's subsidiary acquires invention patent for flufenoxuron DC**

On 13 Aug., 2022, Sichuan Guoguang Agrochemical Co., Ltd. (Sichuan Guoguang) released an announcement on obtaining an invention patent certificate. Its subsidiary Hebi Quanfeng Biological Technology Co., Ltd. received the invention patent certificate (No. 5213235) issued by the State Intellectual Property Office of the People's Republic of China. Application for the patent "a flufenoxuron DC product with high stability" (patent number: ZL202110876374.X, authorised announcement number: CN113575606B) was filed on 29 July, 2021. The patent is valid for 20 years.

### **Hubei Jinzhu's pesticide TC and formulation project breaks ground**

On 12 Aug., groundbreaking ceremony for key projects in Jingzhou Economic Development Zone in Q3 2022 was held in Hubei Province. Hubei Jinzhu Biological Agriculture Co. Ltd. (Hubei Jinzhu)'s 3,800 t/a pesticide technical and 20,000 t/a formulation project (phase I) is one of the projects.

The phase I plans to build production lines for 2,720 t/a pesticides TC and 20,000 t/a pesticide formulations. Over ten workshops and supporting facilities will be constructed, covering an area of 25.93 ha. An investment of USD118.57 million (RMB800 million) is planned in the phase I project, and a total of USD148.22 million (RMB1 billion) for the whole project.



**TABLE 18:** Planned insecticide products and their capacity in Hubei Jinzhu's pesticide TC & formulation project

No.	Product	Capacity, t/a
1	98% Chlorantraniliprole TC	800
2	Cyantraniliprole 10% OD	1,000
3	Chlorantraniliprole 5% SC	500
4	Chlorantraniliprole 35% WG	300
5	Lambda-cyhalothrin 10% EW	100
6	Bifenthrin 100g/L EC	100
7	Fenvalerate 20% EC	50
8	Esfenvalerate 5% EC	50

Source:EI report of Hubei Jinzhu's 3,800 t/a pesticide technical and 20,000 t/a formulation project (phase I)

### Henan Muge to build 600 t/a clothianidin intermediate project

On 18 Aug., the environmental impact report of Henan Muge Biotechnology Co., Ltd. (Henan Muge)'s project of 600 t/a clothianidin intermediate 1-(2-chlorothiazole-5-methyl)-2-nitroimino-3,5-dimethyl-hexahydro-1,3,5-triazine was published by local authorities. Henan Muge plans to dismantle its 2,6-dichloroquinoxaline production lines and build the newly-proposed capacity at the same site in the industrial concentration zone of Yanjin County, Xinxiang city, Henan Province. The new lines will meet clean production requirements. Planned investment in the project is USD4 million (RMB27 million).

### Herbicide & insecticide sales boost Jiangsu Changqing's performance in H1 2022

On 18 Aug., Jiangsu Changqing Agrochemical Co., Ltd. (Jiangsu Changqing) released its semi-annual report. During H1 2022, the company achieved a total revenue of USD315.61 million (RMB2,129.32 million), up 15.46% YoY, and a net profit attributable to equity holders of the listed company of USD29.90 million (RMB201.74 million), soaring by 23.83% YoY.

Pesticide sales are the most important source of revenue for Jiangsu Changqing; its pesticide business contributed 97.84% of the total revenue, or USD308.79 million (RMB2,083.35 million), up 15.59% YoY. Specifically, revenue from insecticides made up over 40% of the total, with USD130.94 million (RMB883.39 million) achieved, up about 6.79% YoY. But biggest contributor was herbicide business, which took up over 46% of the total.

### Nine insecticides on second-batch list of green and high-quality pesticide products

On 13 Aug., the second-batch List of Green and High-Quality Pesticide Products was published by the China Crop Protection Industry Association (CCPIA). After formal examination and comprehensive review by experts organised by CCPIA, a total of 45 products were





approved based upon the association standard *Evaluation Standard of Green and High-Quality Pesticide Product (T/CCPIA 170-2021)*.

Nine insecticide products are on the list, including two spirodiclofen 240g/L SC acaricide products.

**TABLE 19:** Insecticide/acaricide products on the second-batch List of Green and High-Quality Pesticide Products

No.	Applicant (pesticide producer/operator)	Product	Brand
1	Dongguan Ruidéfeng Biologic Science Co., Ltd.	EtOxazole-bifenazate 45% SC	Fumanduo
2	BrightMart CropScience Co., Ltd.	EtOxazole-bifenazate 50% SC	Manshiling
3	Hebei Xingbai Agricultural Technology Co., Ltd.	Spirodiclofen 240g/L SC	Hongshuai
4	Yixing Yizhou Chemical Products Co., Ltd.	Buprofezin 40% WG	Yizhou
5	Jiangxi New Dragon Biotechnology Co., Ltd.	<i>Mamestra brassicae</i> multiple NPV 2 billion PIB/mL SC	Kangbang
6	Shenyang Sciencreat Chemicals Co., Ltd.	Tetrachlorantraniliprole 10% SC	Shuanggong9080
7	Shenyang Sciencreat Chemicals Co., Ltd.	Cyetyprafen 30% SC	Baozhuo
8	Shandong Kangqiao Biotechnology Co., Ltd.	Spirodiclofen 240g/L SC	Liujin
9	FMC Corporation	Cyantraniliprole 10% OD	Beineiwei

Source: China Crop Protection Industry Association (CCPIA)



Price Update

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

TABLE 20: Ex-works prices of major insecticides in China, 8 Aug., 2022

Product	20220708		20220808	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	605,000	90,483.53	595,000	88,191.26
97% Acephate technical	58,500	8,749.23	58,000	8,596.8
95% Acetamiprid technical	150,900	22,568.54	150,000	22,233.09
95% Azocyclotin technical	230,000	34,398.7	220,000	32,608.53
95% Beta-Cypermethrin technical	170,000	25,425.12	166,400	24,663.91
97% Bifenthrin technical	280,000	41,876.67	280,000	41,501.77
95% Buprofezin technical	78,000	11,665.64	78,000	11,561.21
98% Carbofuran technical	115,000	17,199.35	115,000	17,045.37
98% Chlorfenapyr technical	321,000	48,008.61	321,000	47,578.82
95% Chlorfluazuron technical	530,000	79,266.56	485,000	71,887
95% Chlorpyrifos technical	50,100	7,492.93	53,000	7,855.69
94% Cypermethrin technical	82,500	12,338.66	83,000	12,302.31
99% Cyromazine technical	160,000	23,929.53	156,000	23,122.42
98% Deltamethrin technical	550,000	82,257.75	550,000	81,521.34
95% Diafenthiuron technical	145,000	21,686.13	145,000	21,491.99
98% Dimethoate technical	47,600	7,119.03	47,600	7,055.3
70% Emamectin benzoate technical	583,000	87,193.22	577,500	85,597.4
92% Fenvalerate technical	140,000	20,938.34	140,000	20,750.89
95% Fipronil technical	570,000	85,248.94	565,000	83,744.65
98% Hexaflumuron technical	535,000	80,014.36	530,000	78,556.92





97% Imidacloprid technical	154,500	23,106.95	157,500	23,344.75
98% Isoprocarb technical	44,000	6,580.62	44,000	6,521.71
95% Lambda-cyhalothrin technical	205,000	30,659.71	203,000	30,088.78
90% Malathion technical	37,000	5,533.7	36,000	5,335.94
95% Methidathion technical	90,000	13,460.36	90,000	13,339.86
Methomyl 90% SP	75,000	11,216.97	75,000	11,116.55
98% Methomyl technical	86,000	12,862.12	86,000	12,746.97
75% Omethoate technical	51,400	7,687.36	51,400	7,618.54
90% Phoxim technical	43,000	6,431.06	43,000	6,373.49
90% Profenofos technical	83,500	12,488.22	82,665	12,252.66
90% Propargite technical	57,000	8,524.89	58,000	8,596.8
95% Pymetrozine technical	152,500	22,807.83	146,500	21,714.32
95% Pyridaben technical	104,000	15,554.19	105,000	15,563.16
97% Spirodiclofen technical	170,000	25,425.12	167,000	24,752.84
85% Triazophos technical	58,500	8,749.23	58,500	8,670.91

Note: Ex-works price includes VAT.

Source: CCM

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



TABLE 21: Shanghai Port prices of major insecticides in China, 8 Aug., 2022

Product	20220708		20220808	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	605,500	90,558.31	595,500	88,265.37
97% Acephate technical	59,000	8,824.01	58,500	8,670.91
95% Acetamiprid technical	151,400	22,643.32	150,500	22,307.2
95% Azocyclotin technical	230,500	34,473.48	220,500	32,682.64
95% Beta-Cypermethrin technical	170,500	25,499.9	166,900	24,738.02
97% Bifenthrin technical	280,500	41,951.45	280,500	41,575.88
95% Buprofezin technical	78,500	11,740.42	78,500	11,635.32
98% Carbofuran technical	115,500	17,274.13	115,500	17,119.48
98% Chlorfenapyr technical	321,500	48,083.39	321,500	47,652.93
95% Chlorfluazuron technical	530,500	79,341.34	485,500	71,961.11
95% Chlorpyrifos technical	50,600	7,567.71	53,500	7,929.8
94% Cypermethrin technical	83,000	12,413.44	83,500	12,376.42
99% Cyromazine technical	160,500	24,004.31	156,500	23,196.53
98% Deltamethrin technical	550,500	82,332.53	550,500	81,595.45
95% Diafenthiuron technical	145,500	21,760.91	145,500	21,566.1
98% Dimethoate technical	48,100	7,193.81	48,100	7,129.41
70% Emamectin benzoate technical	583,500	87,268	578,000	85,671.51
92% Fenvalerate technical	140,500	21,013.12	140,500	20,825
95% Fipronil technical	570,500	85,323.72	565,500	83,818.76
98% Hexaflumuron technical	535,500	80,089.14	530,500	78,631.03
97% Imidacloprid technical	155,000	23,181.73	158,000	23,418.86
98% Isoprocarb technical	44,500	6,655.4	44,500	6,595.82



95% Lambda-cyhalothrin technical	205,500	30,734.49	203,500	30,162.89
90% Malathion technical	37,500	5,608.48	36,500	5,410.05
95% Methidathion technical	90,500	13,535.14	90,500	13,413.97
Methomyl 90% SP	75,500	11,291.75	75,500	11,190.66
98% Methomyl technical	86,500	12,936.9	86,500	12,821.08
75% Omethoate technical	51,900	7,762.14	51,900	7,692.65
90% Phoxim technical	43,500	6,505.84	43,500	6,447.6
90% Profenofos technical	84,000	12,563	83,165	12,326.77
90% Propargite technical	57,500	8,599.67	58,500	8,670.91
95% Pymetrozine technical	153,000	22,882.61	147,000	21,788.43
95% Pyridaben technical	104,500	15,628.97	105,500	15,637.27
97% Spirodiclofen technical	170,500	25,499.9	167,500	24,826.95
85% Triazophos technical	59,000	8,824.01	59,000	8,745.02

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 Aug. 2022





TABLE 22: FOB Shanghai prices of major insecticides in China, 8 Aug., 2022, USD/t

Product	20220708	20220808
95% Abamectin technical	88,151.69	85,921.1
97% Acephate technical	8,365.78	8,221.36
95% Acetamiprid technical	22,105.92	21,778.29
95% Azocyclotin technical	33,610.48	31,868.17
95% Beta-Cypermethrin technical	24,008.65	23,293.17
97% Bifenthrin technical	39,441.08	39,087.98
95% Buprofezin technical	11,503.11	11,400.12
98% Carbofuran technical	16,884.5	16,733.35
98% Chlorfenapyr technical	46,845.81	46,426.42
95% Chlorfluazuron technical	77,243.44	70,065.57
95% Chlorpyrifos technical	7,445.24	7,796.59
94% Cypermethrin technical	11,732.85	11,697.33
99% Cyromazine technical	22,605.7	21,847.17
98% Deltamethrin technical	77,320.67	76,628.46
95% Diafenthiuron technical	20,501.28	20,317.74
98% Dimethoate technical	6,836.57	6,775.36
70% Emamectin benzoate technical	84,951.94	83,398.63
92% Fenvalerate technical	19,799.8	19,622.55
95% Fipronil technical	83,061.17	81,596.86
98% Hexaflumuron technical	77,970.66	76,551.92
97% Imidacloprid technical	22,629.51	22,859.34
98% Isoprocarb technical	6,331.5	6,274.82
95% Lambda-cyhalothrin technical	28,918.97	28,381.99





Product	20220708	20220808
90% Malathion technical	5,349.44	5,162.51
95% Methidathion technical	13,248.42	13,129.82
Methomyl 90% SP	11,066.78	10,967.7
98% Methomyl technical	13,792.38	13,668.9
75% Omethoate technical	7,369.69	7,303.71
90% Phoxim technical	6,372.19	6,315.14
90% Profenofos technical	11,873.15	11,650.76
90% Propargite technical	8,448.8	8,517.3
95% Pymetrozine technical	21,553.49	20,526.3
95% Pyridaben technical	15,284.63	15,291.93
97% Spirodiclofen technical	24,008.65	23,376.59
85% Triazophos technical	8,666.96	8,589.37

*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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