

# Insecticides China Monthly Report 202211

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## Headline

On 1 Nov., Anhui Neotec held a ceremony in Huaibei City, Anhui Province, marking for the phase-I 3,000 t/a lufenuron TC and 1,000 t/a flumioxazin TC lines of its 15,500 t/a pesticides TC project coming into trial production.

In early Nov., Gansu Youtaida's EI report of the 7,000 t/a pesticides TC, 30,000 t/a pesticide formulations and 10,000 t/a O-methylisourea project was publicised. Insecticides TC planned in this project include thiodicarb, isoprocarb, fenobucarb and carbaryl.

In early Nov., ex-work prices of imidacloprid TC and acetamiprid TC both declined under weak sales. Shandong Hailir, a supplier of these two products, gradually resumed operation of its production lines in mid-Nov.

In late Nov., some insecticides TC saw their price drop and some maintained stable price. Most organophosphorus insecticides TC had stable price. Prices of pyrethroid insecticides had mixed trends. A few nicotinoid insecticides TC had their price set lower, mainly due to slow sales.

In late Nov., the ex-works price of 98% chlorfenapyr TC in China went down by 21.14% MoM, mainly because prices of raw materials were at a low level.

On 16 Nov., the Department of Agriculture and Rural Affairs of Guangdong Province issued an update on crop disease and pest situation in the province. Monitoring data from frontline plant protection stations say that pests and diseases have occurred moderately on vegetables across the province in general. Main pests include *Phyllotreta striolata*, diamondback moth and *Liriomyza sativae*.

On 7 Nov., the Department of Industry and Information Technology of Henan Province and other six provincial departments jointly issued the Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks in Henan Province (Trial), proposing that qualified parks should score at least 70 points in government review. So far, a total of 47 parks have been approved in Henan Province in two batches.

In June–Aug. 2022, chlorpyrifos products from China were mainly exported to Brazil, Pakistan, Bangladesh, etc. The export volume of chlorpyrifos TC to Brazil increased by 5.28% YoY.

In Nov., the Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs released two batches of approved pesticide registration renewals, covering 483 insecticide products, of which 58 are insecticide TC products.

On 24 Nov., ICAMA publicised a batch of pesticide products to be approved of registration, which include ten chlorantraniliprole products, of which two are TC products.







## Editor's Note

In Nov., sluggish demand is the main reason for price drops in insecticide products.

- Early this month, ex-work prices of imidacloprid TC and acetamiprid TC declined under weak sales. Shandong Hailir, a supplier of these two products, gradually resumed operation of its production lines in mid-Nov.
- Late this month, some insecticides TC saw their price drop and some maintained stable price. Prices of pyrethroid insecticides had mixed trends. A few nicotinoid insecticides TC had their price set lower, mainly due to slow sales.
- The ex-works price of 98% chlorfenapyr TC in China went down by 21.14% MoM in late Nov., mainly because prices of raw materials were at a low level.

In terms of company dynamics, Anhui Neotec has the phase-I 3,000 t/a lufenuron TC and 1,000 t/a flumioxazin TC lines of its 15,500 t/a pesticides TC project come into trial production. Jiangxi Huihe's spirotetramat TC production line has come into trial production, too.

Besides, Shandong Youdao launched its chlorantraniliprole TC product in late Oct.

In terms of registration of insecticide products, in Nov., the Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs released two batches of approved pesticide registration renewals, covering 483 insecticide products, of which 58 are insecticide TC products. In late Nov., ICAMA publicised a batch of pesticide products to be approved of registration, which include ten chlorantraniliprole products.

*The USD/CNY exchange rate in this newsletter is USD1.00 = CNY7.2081 on 1 Nov., 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

### Anhui Neotec's lufenuron TC & flumioxazin TC lines come into trial production

Summary: On 1 Nov., Anhui Neotec held a ceremony in Huaibei City, Anhui Province, marking for the phase-I 3,000 t/a lufenuron TC and 1,000 t/a flumioxazin TC lines of its 15,500 t/a pesticides TC project coming into trial production.

On 1 Nov., Anhui Neotec Co., Ltd. (Anhui Neotec) held a trial production ceremony for its 15,500 t/a pesticide TC project (Phase I) in the New Coal Chemical Synthetic Material Base, Huaibei City, Anhui Province. The production lines of 3,000 t/a lufenuron TC and 1,000 t/a flumioxazin TC, and their supporting nitrification workshops came into trial operation.

The whole 15,500 t/a pesticide TC project, with planned investment of some USD388 million (RMB2.8 billion), will cover a total area of 27.8 ha. Besides the lufenuron and flumioxazin lines and by-products like sylvine, sodium salts, organic solvents, hydrochloric acid, sulphuric acid, other products and their designed capacity in the project are as follows:

- Insecticides: 3,000 t/a clothianidin TC, 1,000 t/a spirotetramat TC;
- Other pesticides: 3,000 t/a fluroxypyr-methyl TC, 1,500 t/a glyamifop TC (a novel herbicide product developed by its parent company), 1,000 t/a isoxaflutole TC, 1,000 t/a saflufenacil TC, 500 t/a carfentrazone-ethyl TC, 500 t/a topramezone TC.

Anhui Neotec is a holding subsidiary of Jiangsu Flag Chemical Industry Co., Ltd. (FLAGCHEM). FLAGCHEM's flagship products are fluroxypyr-methyl, lufenuron, clothianidin, clodinafop-propargyl, etc. It is noteworthy that as of 3 Nov., 2022, Anhui Neotec had not obtained any pesticide registration certificates, but FLAGCHEM had acquired 16 insecticides TC registration certificates, including the ones for spirotetramat TC, clothianidin TC and lufenuron TC.





TABLE 1: FLAGCHEM's valid registration of insecticide TC products, as of 3 Nov., 2022

No.	Product	Total content	Expiry date
1	Spirotetramat TC	96%	2027/12/19
2	Pyriproxyfen TC	95%	2027/11/27
3	Flonicamid TC	96%	2027/11/20
4	Lufenuron TC	98%	2027/10/24
5	Chlorantraniliprole TC	95%	2027/10/8
6	Clothianidin TC	98%	2026/1/27
7	Fipronil TC	95%	2025/12/7
8	Methoxyfenozide TC	98%	2025/7/30
9	Chlorfenapyr TC	95%	2025/5/26
10	Buprofezin TC	99%	2024/11/20
11	Thiacloprid TC	95%	2024/10/20
12	Triflumuron TC	97%	2024/6/24
13	Thiamethoxam TC	98%	2024/3/25
14	Indoxacarb TC	95%	2023/9/25
15	Flufenoxuron TC	95%	2023/6/11
16	Dinotefuran TC	99%	2023/2/8

Source: Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs

### Gansu Youtaida to build capacity for multiple insecticide products

Summary: In early Nov., Gansu Youtaida's EI report of the 7,000 t/a pesticides TC, 30,000 t/a pesticide formulations and 10,000 t/a O-methylisourea project was publicised. Insecticides TC planned in this project include thiodicarb, isoprocarb, fenobucarb and carbaryl.

On 7 Nov., Gansu Youtaida Agrochemical Technology Co., Ltd. (Gansu Youtaida)'s environmental impact (EI) report of the 7,000 t/a pesticides TC, 30,000 t/a pesticide formulations and 10,000 t/a O-methylisourea project was publicised on the website of Gansu Environmental Assessment Information Network. Gansu Youtaida plans to invest USD72.56 million (RMB523 million) in this project, which will be built in Hexipu Circular Economy Chemical Industrial Park, Yongchang County, Jinchang City, Gansu Province.



**Products and designed capacity in this project:**

- Pesticides TC (7,000 t/a in total): 3,000 t/a thiodicarb TC, 1,000 t/a isoprocarb TC, 1,000 t/a fenobucarb TC, 1,000 t/a carbaryl TC and 1,000 t/a tebutiuron TC;
- Pesticide formulations (30,000 t/a in total):
  - 1,000 t/a thiodicarb SC, 3,500 t/a thiodicarb WP, 500 t/a thiodicarb WG;
  - 2,000 t/a cyromazine SP, 2,000 t/a cyromazine WP, 500 t/a cyromazine WG, 500 t/a cyromazine SC;
  - 10,000 t/a lime sulphur AS, 10,000 t/a lime sulphur DP;
- Pesticide intermediate: 10,000 t/a O-methylisourea, mainly used for the synthesis of 2-methoxy-4-methyl-6-hydroxypyrimidine, which is an intermediate of organophosphorus insecticide pirimioxy-phose, and for the synthesis of an intermediate of insecticide pirimiphos-ethyl.

**The four insecticides TC proposed in this project:**

- Thiodicarb has insecticidal activity similar to that of methomyl but less in toxicity. It is widely used for the control of pests and diseases on plants such as fruit trees, cotton, vegetables and grain crops.
- Isoprocarb is a fast-acting contact-killing and stomach-poisoning insecticide with short residual period, which is used to control pests such as rice planthoppers, rice leafhoppers, aphids, stink bugs on rice, cocoa, vegetables, sugar cane, etc. It is safe to spiders and natural enemies of planthoppers, but harmful to bees.
- Fenobucarb has a strong contact-killing effect, along with stomach toxicity, fumigation and egg-killing effects. It is mainly used to control rice planthoppers, rice leafhoppers and rice thrips. In particular, it acts fast against rice planthoppers, *Nephotettix cincticeps* and rice stink bug.
- Carbaryl is a broad-spectrum, high-efficacy and low-toxicity insecticide. It can be used for pest control on fruit, vegetables, cotton, tobacco and other economic crops. It is highly effective against cotton bollworms.

Gansu Youtaida was established on 27 Sept. 2021. The company mainly engages in production, retailing and wholesaling of pesticides. It is worth noting that as of 16 Nov., Gansu Youtaida had not yet obtained any pesticide registration certificate.







## Market Analysis

### Imidacloprid & acetamiprid production in Shandong Hailir gradually resumes

Summary: In early Nov., ex-work prices of imidacloprid TC and acetamiprid TC both declined under weak sales. Shandong Hailir, a supplier of these two products, gradually resumed operation of its production lines in mid-Nov.

In early Nov., the ex-works price of 97% imidacloprid TC in China went down by 4.46% MoM (calculated with RMB price) to USD20,796/t (RMB149,900/t); the price of 95% acetamiprid TC came down by 3.92% MoM to USD19,367/t (RMB139,600/t). Price of these two products has followed an overall downtrend since Nov. 2021, yet compared with the prices recorded in Jan. 2021, their prices this month are still at a high level, up 49.9% and 39.6% respectively. It should be noted that the price of 2-chloro-5-chloromethylpyridine (CCMP), an important intermediate for these two products, fell by 11.50% MoM in early Nov.

Domestic demand for imidacloprid TC and acetamiprid TC has been relatively low. As to the supply, CCM's monitoring in mid-Nov. shows that:

- Shandong United Pesticide Industry Co., Ltd. (Shandong United Pesticide): the production lines of imidacloprid TC and acetamiprid TC operate normally.
- Shandong Hailir Chemicals Co., Ltd. (Shandong Hailir): its parent company Hailir Pesticides and Chemicals Group Co., Ltd. announced on 15 Nov. that the production lines in Shandong Hailir were gradually resuming normal production. The lines were suspended after a safety incident on 14 Aug. 2022.
- Hebei Yetian Agrochemicals Co., Ltd. (Hebei Yetian): the imidacloprid TC production line runs normally at present. The company has sufficient stock of the product.

**TABLE 2:** Production of imidacloprid TC & acetamiprid TC in some domestic producers, mid-Nov. 2022

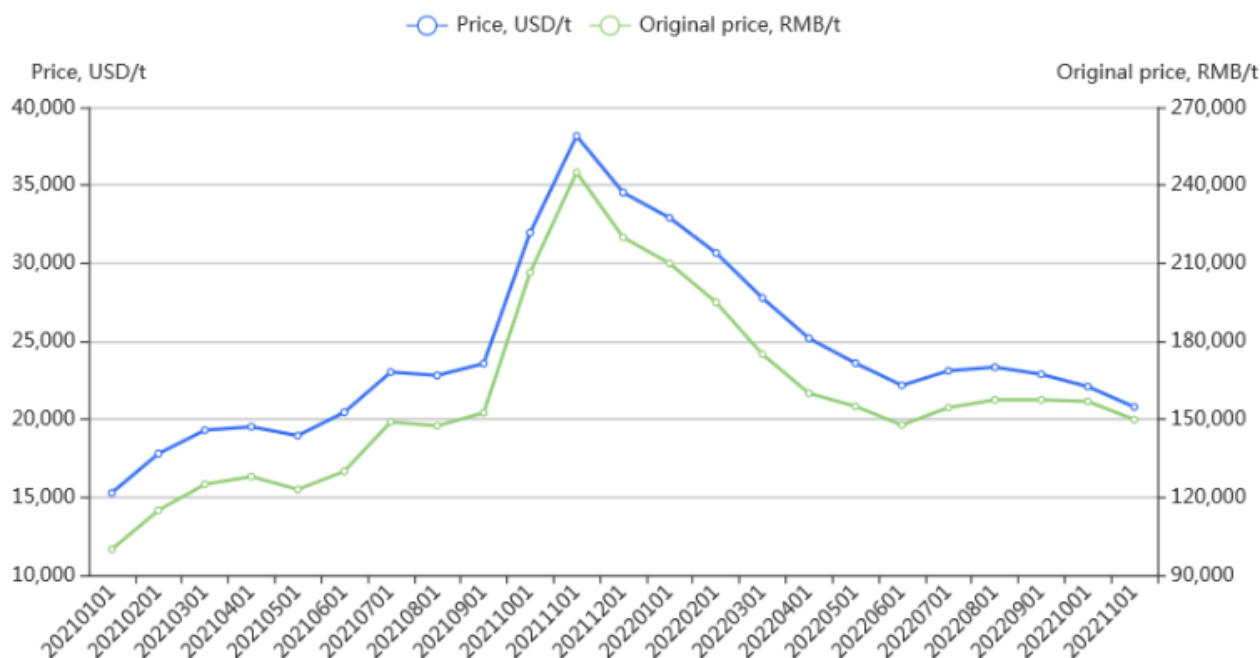
No.	Producer	Product	Capacity, t/a	Remark
1	Shandong United Pesticide	Imidacloprid TC	2,000	Normal production
		Acetamiprid TC	2,000	
2	Hebei Yetian	Imidacloprid TC	5,000	Normal production
3	Shandong Hailir	Imidacloprid TC	2,500	Resume production gradually
		Acetamiprid TC	1,200	
4	Jiangsu Changlong Agrochemical Co., Ltd.	Imidacloprid TC	2,000	Suspension for maintenance

Source:CCM



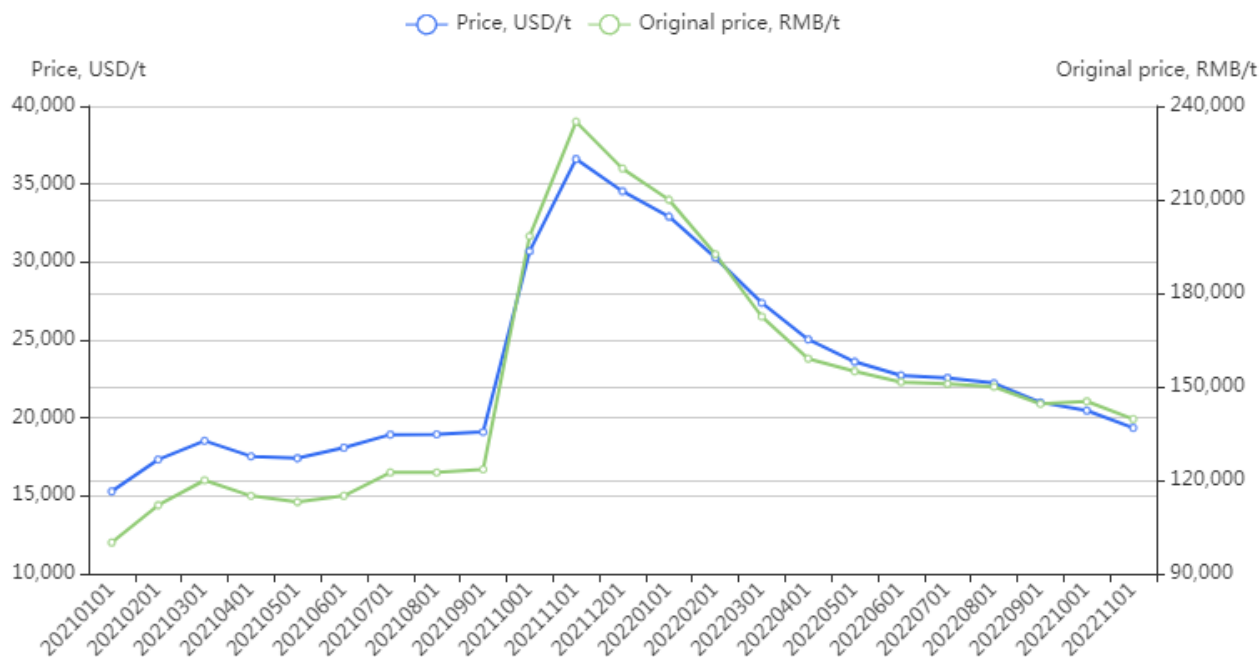


FIGURE 1: Ex-works price of 97% imidacloprid technical in China, Jan. 2021–Nov. 2022



Source:CCM

FIGURE 2: Ex-works price of 95% acetamiprid technical in China, Jan. 2021–Nov. 2022



Source:CCM

**Prices of some insecticides TC drop in late Nov.**

Summary: In late Nov., some insecticides TC saw their price drop and some maintained stable price. Most organophosphorus insecticides TC had stable price. Prices of pyrethroid insecticides had mixed trends. A few nicotinoid insecticides TC had their price set lower, mainly due to slow sales.





In late Nov., some insecticides TC saw their price drop and some maintained stable price. Most organophosphorus insecticides TC had stable price, but some specific products experienced a price fall. Pyrethroid insecticides TC had mixed price trend—some had the price lowered while some increased. Prices of a few nicotinoid insecticides TC kept declining, mainly due to weak sales.

**Organophosphorus insecticides:** Ex-works prices of phoxim TC, profenofos TC and malathion TC were stable, while the price of chlorpyrifos TC decreased. Sluggish domestic demand is the main reason for the price fall. Chlorpyrifos TC manufacturers have been mainly fulfilling their export orders. Major manufacturers have operated normally, such as Hubei Benxing Agrochemical Co., Ltd., Nanjing Red Sun Co., Ltd. and Jiangsu Fengshan Group Co., Ltd. Considering a relatively slack demand for organophosphorus insecticides, their ex-works prices may decline in the short term.

**Pyrethroid insecticides:** Ex-works prices of some pyrethroid TC insecticides were lowered mainly due to slow sales. Prices of lambda-cyhalothrin TC and bifenthrin TC decreased, while the price of deltamethrin TC increased. Considering continued sluggish downstream demand, price fall is expected for products under this category in the short term.

**Nicotinoid insecticides:** Ex-works prices of imidacloprid TC and acetamiprid TC went down for lacklustre demand. It is worth noting that the price of imidacloprid TC has recently been set lower continuously, and the late Nov. price fell by more than 7% MoM. However, prices of some upstream raw materials of nicotinoid insecticides have been at a high level. With tight supply, prices of 3-methyl-4-nitroiminoperhydro-1,3,5-oxadiazine, 2-nitroaminoimidazoline and ethyl N-cyanoethanimideate shot up, which may drive up the production cost. Yet ex-works prices of nicotinoid insecticides TC may still decrease slightly against sluggish demand in the short term.



**TABLE 3: Ex-works prices of major insecticide TC products in China in late Nov. 2022**

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	MoM change
Organophosphorus insecticide	95% Chlorpyrifos technical	48,700	6,756	-5.25%
	90% Profenofos technical	82,665	11,468	0.00%
	90% Phoxim technical	45,000	6,243	0.00%
	90% Malathion technical	36,000	4,994	0.00%
Pyrethroid insecticide	95% Lambda-cyhalothrin technical	190,000	26,359	-3.55%
	97% Bifenthrin technical	265,000	36,764	-0.75%
	94% Cypermethrin technical	83,500	11,584	0.00%
	98% Deltamethrin technical	540,000	74,916	1.89%
Nicotinoid insecticide	97% Imidacloprid technical	141,600	19,645	-7.51%
	95% Acetamiprid technical	135,500	18,798	-4.91%
Antibiotic insecticide	95% Abamectin technical	542,000	75,193	-3.21%
	70% Emamectin benzoate technical	522,000	72,419	-2.79%

Note: MoM change is calculated with RMB price.

Source: CCM

### Chlorfenapyr TC price drops by over 20% MoM in late Nov.

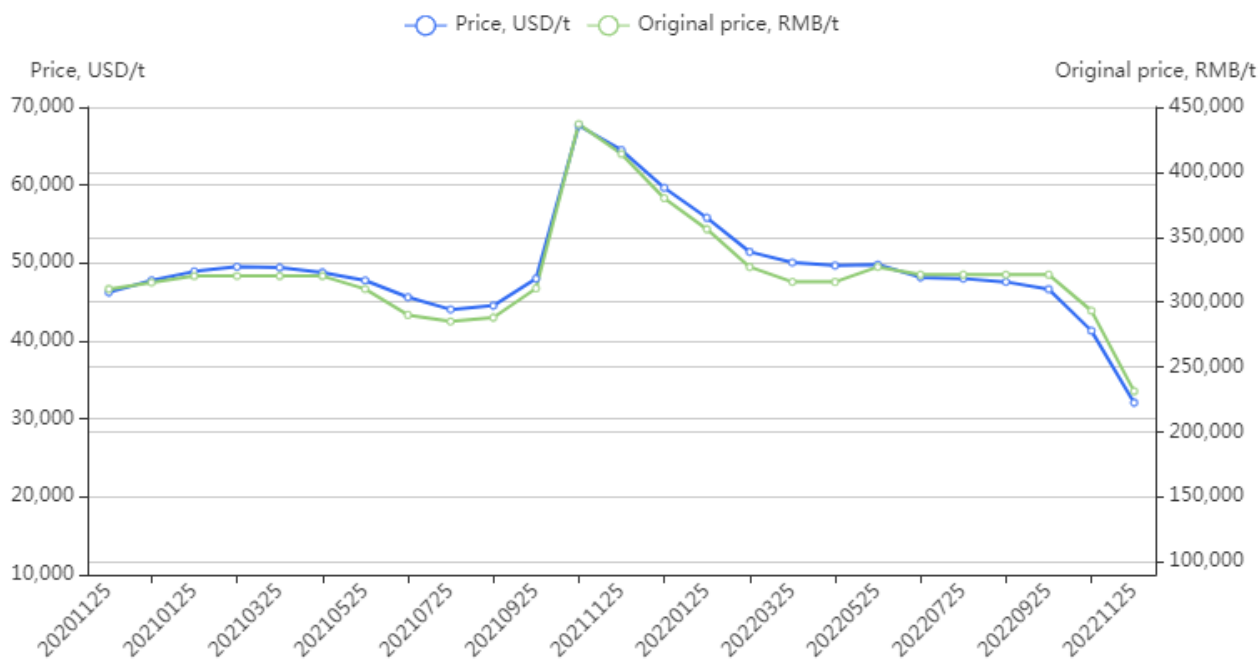
Summary: In late Nov., the ex-works price of 98% chlorfenapyr TC in China went down by 21.14% MoM, mainly because prices of raw materials were at a low level.

CCM's price monitoring data show that the ex-works price of 98% chlorfenapyr TC in China went down by 21.14% MoM (calculated with RMB price) to USD32,089/t (RMB231,300/t) in late Nov. According to domestic chlorfenapyr TC producer Kaifeng Biocar Biochemical Co., Ltd., prices of raw materials for the product have been currently at a low level, so the price has come down. The company also reveals that it now mainly fulfills existing orders and its stock is not large; the price would go upward in the future as the stock reduces.

The ex-works price of chlorfenapyr has been on a general decline since Nov. last year. This month saw a much bigger drop in the price, which sent the price to the lowest level in the past two years.



FIGURE 3: Ex-works price of 98% chlorfenapyr technical in China, Nov. 2020–Nov. 2022



Source:CCM



Pest

**Current occurrence situation of major pests on vegetables in Guangdong**

Summary: On 16 Nov., the Department of Agriculture and Rural Affairs of Guangdong Province issued an update on crop disease and pest situation in the province. Monitoring data from frontline plant protection stations say that pests and diseases have occurred moderately on vegetables across the province in general. Main pests include *Phyllotreta striolata*, diamondback moth and *Liriomyza sativae*.

On 16 Nov., the Department of Agriculture and Rural Affairs of Guangdong Province issued an update on crop disease and pest situation in the province. Leafy vegetables are the dominant vegetable plants grown in Guangdong. Monitoring data from frontline plant protection stations say that pests and diseases have occurred moderately on vegetables across the province in general. Main pests include *Phyllotreta striolata*, diamondback moth and *Liriomyza sativae*.

**TABLE 4:** Occurrence situation of major pests on vegetables in Guangdong Province, Nov. 2022

Pest	General occurrence	Frontline plant protection station	Vegetables inspected	Damage rate
<i>Phyllotreta striolata</i>	Relatively heavy occurrence	Lianjiang station	Cauliflower, Chinese flowering cabbage, etc.	60%–90%
		Huiyang station	Leaf mustard	16.4%
		Shantou station	Rape	20%
		Shenzhen station	Radish, Chinese flowering cabbage, etc.	5%–12%
Diamondback moth	Moderate occurrence	Shantou station	Chinese broccoli	10%
		Huiyang station	Pak choi	4%
		Dongguan station	Chinese broccoli	3%
<i>Liriomyza sativae</i>	Moderate occurrence	Lianjiang station	Long bean and Chinese flowering cabbage	10%–20%
		Huiyang station	Long bean	11.3%
Chinese chive maggot	Mild occurrence	Huiyang station	Chive	1.2% for clusters, the highest reach 13.3%
		Yingde station	Chive	0.8% for clusters, the highest reach 4.6%

Source: Department of Agriculture and Rural Affairs of Guangdong Province

Among these pests, diamondback moth has developed increasing resistance to insecticides. To tackle this problem, the following



pesticides are recommended:

- Insect growth regulators: diafenthiuron 50% SC, flufenoxuron 5% EC, chlorfluazuron 5% EC, diflubenzuron 20% SC, etc. These pesticides should be sprayed in the peak time of second instar larvae, so that the larvae cannot exuviate and die later.
- Bio-insecticides: spinosad 2.5% SC, matrine 1.3% AS, abamectin 1.8% EC
- Novel insecticides: flubendiamide 20% WG, indoxacarb 15% WG, chlorfenapyr 10% SC, etc.





## Policy

### Henan releases construction standards, accreditation & management measures for chemical parks

Summary: On 7 Nov., the Department of Industry and Information Technology of Henan Province and other six provincial departments jointly issued the *Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks in Henan Province (Trial)*, proposing that qualified parks should score at least 70 points in government review. So far, a total of 47 parks have been approved in Henan Province in two batches.

On 7 Nov., the Department of Industry and Information Technology of Henan Province and other six provincial departments jointly issued the *Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks in Henan Province (Trial)*, proposing that qualified parks should score at least 70 points in government review. Chemical parks with score below 70 should be given a period (not exceed one year in principle) for rectification. During the rectification period, building new chemical projects, or transforming/expanding existing production capacity for chemical products is prohibited in such parks, but safety improvement, environmental protection, energy saving and intelligent transformation projects are allowed. After completing rectification, such parks should re-apply for provincial accreditation.

Meanwhile, parks will not be accredited in the following situations:

- The establishment and overall planning of a park have not been approved following this regulation. The approval of park overall planning before this regulation implemented is regarded as the approval of the establishment.
- The chemical park planning environmental impact assessment and water resources argumentation has failed to pass review.
- The industrial planning has not passed expert review.
- The park has been identified with relatively-high level of security risks or above.

So far, Henan Province has approved a total of 47 chemical industrial parks or chemical industrial concentration areas in two batches.





**TABLE 5:** First-batch chemical industrial concentration areas and specialised chemical industrial parks accredited in Henan Province

No.	Category	Chemical park/concentration area	Location
1	Chemical industrial concentration area	Fine Chemical Industrial Concentration Area	Kaifeng City
2		Huayang Industrial Concentration Area	Mengjin County, Luoyang City
3		Nylon New Material Industrial Concentration Area	Pingdingshan City
4		Shilong Industrial Concentration Area	Pingdingshan City
5		Yexian Industrial Concentration Area	Yexian County, Pingdingshan City
6		Baoshan Circular Economy Industrial Concentration Area	Hebi City
7		Economic & Technological Industrial Concentration Area	Xinxiang City
8		Huojia Industrial Concentration Area	Huojia County, Xinxiang City
9		Industrial Concentration Area	Jiaozuo City
10		Economic & Technological Industrial Concentration Area	Puyang City
11		Chemical Industrial Concentration Area	Puyang City
12		Industrial Concentration Area	Puyang City
13		Circular Economy Industrial Concentration Area	Xiangcheng County, Xuchang City
14		Wuyang Industrial Concentration Area	Wuyang County, Luohe City
15		Chemical Industrial Concentration Area	Nanyang City
16		Tongbai Chemical Industrial Concentration Area	Nanyang City
17		Yongcheng Industrial Concentration Area	Yongcheng City, Shangqiu City
18		Industrial Concentration Area	Zhumadian City
19		Huling Industrial Concentration Area	Jiyuan City
20	Specialised chemical industrial park	Heshan District Jijiashan Industrial Park	Hebi City
21		Tiexi Specialised Chemical Park	Weihui City, Xinxiang City
22		Loucun Village Specialised Fine Chemical & New Material Park	Huojia County, Xinxiang City



23		Mengzhuang Industrial Concentration Area	Huixian County, Xinxiang City
24		Hongzhou Industrial Park of Huixian County Industrial Concentration Area	Huixian County, Xinxiang City
25		Luoxi Industrial Concentration Area	Luohe City
26		Wulongkou Chemical Park	Jiyuan City
27		Qingshui Fine Chemical Park	Jiyuan City

Source: Department of Industry and Information Technology of Henan Province

**TABLE 6:** Second-batch chemical industrial parks accredited in Henan Province

No.	Category	Park	Location
1	Chemical industrial park (Area≥300 ha.)	Huanglong Industrial Concentration Area	Kaifeng City
2		Petrochemical Industrial Concentration Area	Luoyang City
3		Ruzhou Industrial Concentration Area	Ruzhou City, Pingdingshan City
4		Coal Circular Economy Chemical Park	Baofeng County, Pingdingshan City
5		Tongye Area of New Chemical Industrial Park	Anyang City
6		Qinyang Industrial Concentration Area	Qinyang City, Jiaozuo City
7		Mengzhou Industrial Concentration Area	Mengzhou City, Jiaozuo City
8		Fanxian Industrial Concentration Area	Fanxian County, Puyang City
9		Shanzhou Industrial Concentration Area	Sanmenxia City
10		Yima Coal Chemical Industrial Concentration Area	Yima City, Sanmenxia City
11	Chemical industrial park (Area < 300 ha.)	High-tech Industrial Concentration Area	Pingdingshan City
12		Zhangwu-Shuiye Area of New Chemical Industrial Park	Anyang City
13		Linzhou Fine Chemical Technology Industrial Park	Linzhou City, Anyang City
14		Huaxian Coal Chemical Industrial Park	Huaxian County, Anyang City
15		Yanjin Industrial Concentration Area	Yanjin County, Xinxiang City
16		Taiqian Industrial Concentration Area	Puyang City
17		Nanle Biomass Energy Industrial Park	Nanle County, Puyang City
18		Puzhou Chemical Industrial Park	Fanxian County, Puyang City
19		Fine Chemical Industrial Park	Xuchang City
20		Ningling Industrial Concentration Area	Ningling County, Shangqiu City

Source: Department of Industry and Information Technology of Henan Province



## Import and Export

### Chlorpyrifos TC export to Brazil sees 5.28% YoY increase in June–Aug. 2022

Summary: In June–Aug. 2022, chlorpyrifos products from China were mainly exported to Brazil, Pakistan, Bangladesh, etc. The export volume of chlorpyrifos TC to Brazil increased by 5.28% YoY.

According to the import and export data updated on 8 Nov. from Tranalysis, in June–Aug. 2022, chlorpyrifos products from China were mainly exported to Brazil, Pakistan, Bangladesh, etc. The export volume to these major destinations totalled 3,435.94 tonnes (actual volume), or 2,942.67 tonnes (100% AI volume).

The details of China's chlorpyrifos exports in June–Aug. 2022 are as follows:

- Specifications for export: 94% TC, 95% TC, 97% TC, 400g/L EC, 480g/L EC
- Average export price: USD6.94/kg for TC products and USD4.31/kg for formulation products
- Major exporter: The top 3 exporters, Jiangsu Fengshan Group Co., Ltd., Zhejiang Xinnong Chemical Co., Ltd. and Zhejiang Chemicals Import and Export Corp., together exported 1,921.88 tonnes (actual volume) of chlorpyrifos products, the amount making up 55.93% of the total exported to major destinations.

In June–Aug. 2022, export volume of China's chlorpyrifos TC to Brazil, Pakistan, Peru, Australia, India, Russia and the Philippines was 2,721 tonnes (actual volume), or 2,634.66 tonnes (100% AI volume). Chlorpyrifos TC export to the largest destination Brazil increased to 1,918.50 tonnes, up 5.28% from the 1,822.25 tonnes in the same period last year.

**TABLE 7:** Exports of chlorpyrifos products from China, June–Aug. 2022

Category	Specifications	Volume, kg	Average price, USD/kg
Technical	97% TC	2,504,000	6.95
	95% TC	180,000	6.68
	94% TC	37,000	7.50
	<b>Subtotal</b>	<b>2,721,000</b>	<b>6.94</b>
Formulation	480g/L EC	516,253	4.38
	400g/L EC	198,686	4.11
	<b>Subtotal</b>	<b>714,939</b>	<b>4.31</b>
<b>Total</b>		<b>3,435,939</b>	<b>6.39</b>

*Note: The data were updated by Tranalysis on 8 Nov., 2022.*

*Source: Tranalysis*



**TABLE 8:** Export of chlorpyrifos TC to some destinations in June–Aug. 2022 & June–Aug. 2021

No.	Destination	June–Aug. 2022		June–Aug. 2021	
		Volume, kg	Share	Volume, kg	Share
1	Brazil	1,918,500	70.51%	1,822,250	77.15%
2	Pakistan	363,000	13.34%	208,000	8.81%
3	Peru	134,500	4.94%	57,000	2.41%
4	Australia	120,000	4.41%	129,120	5.47%
5	India	120,000	4.41%	23,000	0.97%
6	Russia	60,000	2.21%	40,000	1.69%
7	The Philippines	5,000	0.18%	82,500	3.49%
<b>Total</b>		<b>2,721,000</b>	<b>100.00%</b>	<b>2,361,870</b>	<b>100.00%</b>

Note:1. The data were updated by Tranalysis on 8 Nov., 2022.

2. The share and total export for June–Aug. 2022 and June–Aug. 2021 in this table is calculated only on the export volume to the following seven countries: Brazil, Pakistan, Peru, Australia, India, Russia and the Philippines.

Source:Tranalysis

**TABLE 9:** Export of chlorpyrifos formulations to some destinations in June–Aug. 2022 & June–Aug. 2021

No.	Destination	June–Aug. 2022		June–Aug. 2021	
		Volume, kg	Share	Volume, kg	Share
1	Bangladesh	316,398	44.26%	103,466	33.96%
2	Pakistan	182,528	25.53%	58,640	19.25%
3	Peru	80,920	11.32%	125,216	41.10%
4	Uganda	78,613	11.00%	363	0.12%
5	Ecuador	36,480	5.10%	17,000	5.58%
6	South Africa	20,000	2.80%	0	/
<b>Total</b>		<b>714,939</b>	<b>100.00%</b>	<b>304,684</b>	<b>100.00%</b>

Note:1. The data were updated by Tranalysis on 8 Nov., 2022.

2. The share and total export for June–Aug. 2022 and June–Aug. 2021 in this table is calculated only on the export volume to the following six countries: Bangladesh, Pakistan, Peru, Uganda, Ecuador and South Africa.

Source:Tranalysis



TABLE 10: Major exporters of chlorpyrifos products from China, June–Aug. 2022

No.	Exporter	Volume, kg
1	Jiangsu Fengshan Group Co., Ltd.	867,000
2	Zhejiang Xinnong Chemical Co., Ltd.	690,880
3	Zhejiang Chemicals Import and Export Corp.	364,000
4	Esaaachem Company	200,832
5	Nanjing Bodao Logistics Co., Ltd.	172,000
6	Shandong Luba Chemical Co., Ltd.	120,000
7	Sinochem Agro Co., Ltd.	69,888
8	Joc Uniwell Industrial Co., Ltd.	47,250
9	Shanghai Hui Song (H&S) Agro-Solution Co., Ltd.	40,700
10	Sino-Agri Red Sun Bio-Technology Co., Ltd.	40,000
11	Nanjing Lepuz Chemical Co., Ltd.	40,000
12	Qiantang (Shenzhen) International Supply Chain Co., Ltd.	40,000
	Others	743,389
	<b>Total</b>	<b>3,435,939</b>

Note: The data were updated by Tranalysis on 8 Nov., 2022.

Source: Tranalysis



## Registration

### Registration renewals of 58 insecticides TC products approved in Nov.

Summary: In Nov., the Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs released two batches of approved pesticide registration renewals, covering 483 insecticide products, of which 58 are insecticide TC products.

In Nov., the Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs of People's Republic of China released two batches of 1,266 approved registration renewals of agrochemical products from 582 enterprises. Altogether 483 insecticide products were on the lists, including 80 hygienic insecticide products. Among these renewed-registration insecticide products, 58 are TC products and 425 are formulations (mainly in the form of SC, EC, WP, and most of them are of low toxicity).

It is worth noting that nine companies have at least five insecticide products passed registration renewal this month. In particular, Hebei Veyong Bio-chemical Co., Ltd. (Veyong Bio-chemical) has eight products renewed registration, including three TC products—98% dinotefuran TC, 98% clothianidin TC and 96% acetamiprid TC. Besides, there are four spirotetramat products approved of registration renewal—two TC and two SC products, from Shandong Hailir Chemicals Co., Ltd., Jiangsu Yunfan Chemical Co., Ltd., Hailir Pesticides and Chemicals Group Co., Ltd. and Pilarquim (Jiangsu) Co., Ltd.

**TABLE 11:** Insecticides approved of registration renewal by toxicity in Nov. 2022

No.	Toxicity	Number
1	Low	295
2	Moderate	81
3	Mild	60
4	Low (TC is high)	33
5	Moderate (TC is high)	11
6	High	3
<b>Total</b>		<b>483</b>

*Source: Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs*



**TABLE 12:** Insecticides approved of registration renewal by form in Nov. 2022

No.	Form	Number
1	SC	94
2	EC	87
3	TC	58
4	WP	50
5	ME	27
6	GR	26
7	WG	25
8	EW	20
9	AE	16
10	LV	12
11	MC	9
12	SL	8
13	CS	8
14	RB	5
15	SP	5
Others		33
<b>Total</b>		<b>483</b>

Source: Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs



**TABLE 13:** Registrants with at least 5 insecticide products approved of registration renewal in Nov. 2022

No.	Registrant	Number
1	Hebei Veyong Bio-chemical Co., Ltd.	8
2	Sinon Chemical (China) Co., Ltd.	5
3	Shandong United Pesticide Industry Co., Ltd.	5
4	Ganzhou Yutian Chemical Co., Ltd.	5
5	Jiangxi Zhongxun Agro-Chemical Co., Ltd.	5
6	Hunan Xinchangshan Agricultural Development Co., Ltd.	5
7	Qingdao Jiner Agrochemicals R&D Co., Ltd.	5
8	Jiangsu Fengshan Group Co., Ltd.	5
9	Jiangsu Futian Agrochemical Co., Ltd.	5

Source: Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs

**TABLE 14:** Veyong Bio-chemical's insecticide products approved of registration renewal in Nov. 2022

No.	Active ingredient & content	Form	Toxicity
1	98% Dinotefuran	TC	Low
2	98% Clothianidin	TC	Low
3	96% Acetamiprid	TC	Moderate
4	20% Dinotefuran	SC	Low
5	40% Diflubenzuron·10% lambda-cyhalothrin	SC	Low
6	20% Clothianidin	SC	Low
7	5% Abamectin	WP	Low (TC is high)
8	5% Acetamiprid	EC	Low

Source: Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs

**TABLE 15:** Spirotetramat products approved of registration renewal in Nov. 2022

No.	Registrant	Active ingredient & content	Form	Toxicity
1	Shandong Hailir Chemicals Co., Ltd.	96% Spirotetramat	TC	Mild
2	Jiangsu Yunfan Chemical Co., Ltd.	96% Spirotetramat	TC	Mild
3	Hailir Pesticides and Chemicals Group Co., Ltd.	10% Dinotefuran·10% spirotetramat	SC	Mild
4	Pilarquim (Jiangsu) Co., Ltd.	3% Abamectin·12% spirotetramat	SC	Moderate (TC is high)

Source: Department of Agrochemical Management, Ministry of Agriculture and Rural Affairs

### ICAMA releases 10 chlorantraniliprole products to be approved in late Nov.

Summary: On 24 Nov., ICAMA publicised a batch of pesticide products to be approved of registration, which include ten chlorantraniliprole products, of which two are TC products.

On 24 Nov., the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA) publicised a batch of pesticides to be approved of registration, which include ten chlorantraniliprole products. Among them, two are chlorantraniliprole TC products, one from Shandong Aokun Crop Science Co., Ltd. and the other from Nanjing Red Sun Co., Ltd.

Of the eight chlorantraniliprole formulations to be approved, seven are in the form of SC. Indeed, SC is the most popular form of chlorantraniliprole formulation products that have been registered so far, products in this form accounting for over 50%. Major TC providers to these to-be-approved formulations are Inner Mongolia Miraculous Crop Science Co., Ltd., Shaanxi Meibang Pharmaceutical Group Co., Ltd. and Jiangsu Flag Chemical Industry Co., Ltd.

TABLE 16: Chlorantraniliprole products to be approved in China, late Nov. 2022

No.	Registrant	Active ingredient & content	Form	Toxicity	Source of chlorantraniliprole TC
1	Shandong Aokun Crop Science Co., Ltd.	96% Chlorantraniliprole	TC	Low	/
2	Nanjing Red Sun Co., Ltd.	97% Chlorantraniliprole	TC	Low	/
3	Shaanxi Yitianfeng Crop Science Co., Ltd.	15% Tolfenpyrad·10% chlorantraniliprole	SC	Moderate	Inner Mongolia Miraculous Crop Science Co., Ltd. (PD20172426), Shandong Hailir Chemicals Co., Ltd. (PD20190042)
4	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	30% Chlorfenapyr·20% chlorantraniliprole	WG	Low	Shaanxi Meibang Pharmaceutical Group Co., Ltd. (PD20150258), Inner Mongolia Miraculous Crop Science Co., Ltd.
5	Shaanxi Tunpsion Biological Technology Co., Ltd.	11% Methoxyfenozide·11% chlorantraniliprole	SC	Mild	Inner Mongolia Miraculous Crop Science Co., Ltd., Shaoxing Shangyu Xinyinbang Biochemical Co., Ltd. (PD20121618)
6	SixF Crop Protection Co., Ltd.	200g/L Chlorantraniliprole	SC	Low	FMC Corporation (PD20100676)
7	Shaanxi Tunpsion	20% Chlorfenapyr·10	SC	Low	Shaanxi Meibang Pharmaceutical Group Co., Ltd., Inner Mongolia Miraculous Crop Science Co., Ltd.



	Biological Technology Co., Ltd.	% chlorantraniliprole			
8	Jiangsu Flag Chemical Industry Co., Ltd.	5% Lufenuron·5% chlorantraniliprole	SC	Mild	Jiangsu Flag Chemical Industry Co., Ltd. (PD20121591), Jiangsu Flag Chemical Industry Co., Ltd. (PD20220216)
9	Jiangxi Zhongxun Agri-Chemical Co., Ltd.	200g/L Chlorantraniliprole	SC	Mild	Inner Mongolia Miraculous Crop Science Co., Ltd.
10	Synwill Co., Ltd.	200g/L Chlorantraniliprole	SC	Low	Synwill (Yichang) Co., Ltd. (PD20220078)

Source: ICAMA



## News in Brief

### Shandong Youdao launches its chlorantraniliprole TC product

On 30 Oct., Shandong Youdao Chemical Co., Ltd. (Shandong Youdao) held a new product launch ceremony for its chlorantraniliprole TC and announced the first shipments would be sent out that day. In late Oct., Shandong Youdao's production lines of 1,000 t/a chlorantraniliprole TC & 5,000 t/a 2-amino-5-chloro-N,3-dimethylbenzamide successfully passed all trial production acceptance checks and came into trial production. The company thus becomes the first qualified Chinese manufacturer with industrial production capacity for this TC product.

Its phase II project plans to build 10,000 t/a chlorantraniliprole TC lines (the capacity is adjusted from 5,000 t/a to 10,000 t/a, considering the strong market demand) and 8,000 t/a 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylic acid. Currently, ground has been levelled, and pipelines are being laid and roads being paved. According to Shandong Youdao's estimation, the lines will be completed and put into operation in Oct. 2023, and by then it will boast 11,000 t/a chlorantraniliprole TC capacity.

### Jiangxi Huihe's spirotetramat TC production line comes into trial production

On 3 Nov., Jiangxi Huihe Chemical Co., Ltd. (Jiangxi Huihe) held a trial production ceremony for its 3,000 t/a high-efficacy pesticide TC project (including 600 t/a dinotefuran TC, 500 t/a flonicamid TC and 300 t/a spirotetramat TC).

According to CCM's price monitoring, in early Nov., Jiangxi Huihe has started to supply spirotetramat TC and its ex-works quotation is USD90,716.33/t (RMB650,000/t). The company now becomes a new supplier in China's spirotetramat TC market.

Previously, Hebei Lansheng Biotech Co., Ltd. is the major spirotetramat TC producer in China, with 500 t/a production capacity. Potential producers include Hebei Xingbai Pharmaceutical Group Co., Ltd., Jiangsu Jiannong ABA Agrochemical Co., Ltd. and Anhui Neotec Co., Ltd., which have planned to build capacity for spirotetramat TC.

### EI report of Dezhou New Power's 1,000 t/a diafenthiuron TC project released

In late Oct., the environmental impact (EI) report of Dezhou New Power Fine Chemical Co., Ltd. (Dezhou New Power)'s 1,000t/a diafenthiuron TC project was released by local authorities. The company proposed to build this project in Sept. this year, with planned investment of USD1.40 million (RMB10.12 million). The new project will take advantage of the intermediate product 2,6-diisopropyl-4-phenoxyphenyl isocyanate from its 8,500 t/a fine chemicals project (Phase I), production line for which is currently under construction.

Dezhou New Power, established in Nov. 2021 in the Pingyuan County Chemical Industry Park, Dezhou City, Shandong Province, is a subsidiary of Shandong New Power Chemical Group Co., Ltd. (Shandong New Power). Another Shandong New Power's subsidiary, Shandong New Power Biology Science & Technology Co., Ltd., is the successor to the former Ningjin County Jinguang Pesticide Factory that was established in 1993. The company has cooperated with many Chinese universities and research institutes on R&D and production of more than 60 high-efficiency and low-toxicity pesticide products, covering insecticides, fungicides and herbicides.





### FLAGCHEM acquires patent for clothianidin preparation

On 2 Nov., Jiangsu Flag Chemical Industry Co., Ltd. (FLAGCHEM) announced that it and its subsidiary Anhui Neotec Co., Ltd. (Anhui Neotec) had recently each received a patent for invention from the China National Intellectual Property Administration. Application of these patented technologies will not have a significant influence on the company's performance in the short term, but will facilitate introduction of innovative products to the market in the future.

**TABLE 17:** FLAGCHEM's recently acquired patents for invention

No.	Patent	Patent No.	Way of acquisition	Date of application	Valid period	Patentee
1	A method for preparing the active ingredient clothianidin	202111394359.8	Original acquisition	2021/11/22	20 years	FLAGCHEM
2	A method for preparing the intermediate 2-(5-fluoro-2,4-dinitrophenoxy)acetate	201810934142.3	Original acquisition	2018/8/16	20 years	Anhui Neotec

Source: Jiangsu Flag Chemical Industry Co., Ltd.

### Huai'an Glory plans to build 1kt/a dinotefuran TC capacity

On 11 Nov., the environmental impact report of Huai'an Glory Chemical Co., Ltd. (Huai'an Glory)'s 1,500 t/a pesticide capacity expansion and transformation project was accepted by local authorities. The company plans to invest USD14.62 million (RMB105.40 million) to build capacity of 1,000 t/a 98% dinotefuran TC and 500 t/a 97% florasulam TC. In view of changing pesticide market, the same production line for florasulam can also be used to produce penoxsulam.

Huai'an Glory is mainly engaged in R&D, production and sale of high-efficacy, low-toxicity and less-persistent pesticides. It is located in Jiangsu Huai'an Industrial Park, Jiangsu Province.

### Liaoning approves second batch of nine chemical parks

On 9 Nov., the Liaoning Provincial Industry and Informatization Department issued the second-batch list of approved chemical parks. The nine approved chemical parks in this batch are: Shenyang Chemical Industrial Park, Dalian Dagushan Chemical Industrial Park, Fushun High-tech Industrial Development Zone Chemical & Fine Chemical Industrial Park, Anshan Fine Organic New Material Chemical Industrial Park, Liaoning (Yingkou) Coastal Industrial Base Chemical Industry Zone, Donggang Qianyang Fine Chemical Industrial Park, Jinzhou Binhai Chemical Industrial Park, Chaoyang Liucheng Economic Development Zone Chemical Industrial Park and Panjin Shuaxiang Industrial Park. Previously, Liaoning Province has already accredited 22 chemical parks in the first batch.

### Jining Fushun plans to expand 2-chloro-5-chloromethylthiazole capacity

In Nov., Jining Fushun Chemical Co., Ltd. (Jining Fushun) publicised some basic information on its 30,000 t/a anhydrous potassium fluoride, 20,000 t/a potassium fluorosilicate, 2,000 t/a 2-chloro-5-chloromethylthiazole, 1,000 t/a methyl chloroacetate and 1,000 t/a ethyl chloroacetate technical transformation & capacity expansion project (Phase I). The company plans to invest USD13.87 million (RMB100





million) in this project, which will be located in the company's existing plant in Zhanghuang Chemical Park, Yutai County, Jining City, Shandong Province. According to its plan, the Phase I project, which involves construction of 30,000 t/a anhydrous potassium fluoride production capacity and 2-chloro-5-chloromethylthiazole capacity expansion from the existing 3,000 t/a to 5,000 t/a, is expected to be completed and put into operation in June 2023.

2-Chloro-5-chloromethylthiazole is a necessary intermediate for the synthesis of second-generation neonicotinoid insecticides such as thiamethoxam, thiacloprid and imidaclothiz.

### **Henan to build Kaifeng City into industry base for novel green pesticides**

In Nov., Henan issued the *Guidance on Promoting High-quality Development of Chemical Industry in Henan Province During the 14th Five-Year Plan Period*. It proposes that by 2025, the output value of chemical parks will account for more than 70% of the industry's total output value across the province; Henan will strive to foster two national chemical parks (or national new industrialisation industry demonstration bases) and cultivate two chemical industrial concentration areas with an output value of over RMB100 billion. In its modern chemical industry base planning, Henan will, centering on Kaifeng City, build it into important novel & environmental-friendly pesticide industry base and green coatings production base at the national level.

### **Yancheng Shuangning to technically transform some existing pesticide formulation lines**

On 8 Nov., the environmental impact report of Yancheng Shuangning Agro-Chemical Co., Ltd. (Yancheng Shuangning)'s 4,150 t/a pesticide formulation lines technical transformation project was accepted by local authorities. Yancheng Shuangning plans to transform 550 t/a existing WP production lines into lines for products in greener forms such as EW, SE, ME, SP. New products and designed capacity in this project are: 200 t/a imidacloprid 10% ME, 150 t/a dinotefuran 50% SP, 150 t/a tebuconazole·prochloraz 30% SE and 50 t/a tebuconazole 25% EW. The project will not change the company's total capacity, which remains at 4,150 t/a, but will enrich its product variety, increasing the number from 36 to 40.

Yancheng Shuangning is located in Funing County, Yancheng City, Jiangsu Province. It is a private enterprise restructured from the former Funing Pesticide Factory.

### **Shanxi rolls out management catalogue of energy-intensive & large-emission projects**

On 4 Nov., Shanxi Provincial Development and Reform Commission and other five departments jointly issued the *Management Catalogue of Energy-intensive & Large-emission Projects in Shanxi Province (2022 Trial)*, which clarifies the scope of the energy-intensive & large-emission projects. The catalogue covers six major categories, including petroleum, coal & other fuel processing industries, chemical raw materials & chemical products manufacturing industry, non-metallic mineral products manufacturing industry, ferrous metal smelting and rolling processing industry, non-ferrous metal smelting and rolling processing industry, and electricity & heat production and supply industries. These six main categories are then subdivided into 20 sub-categories of trades and 33 processes/typical products. There are 10 main products produced or processes involved in the chemical industry: coal-to-coke, coal-to-natural gas, coal-to-liquids, coal-to-methanol, coal-to-olefins, coal-to-ethylene glycol, caustic soda, calcium carbide, synthetic ammonia and urea.





## Price Update

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

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

Product	20221008		20221108	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	576,000	81,135.9	554,000	76,858
97% Acephate technical	58,000	8,169.93	58,000	8,047
95% Acetamiprid technical	145,300	20,467.09	139,600	19,367
95% Azocyclotin technical	190,000	26,763.58	185,000	25,666
95% Beta-Cypermethrin technical	166,400	23,439.26	165,000	22,891
97% Bifenthrin technical	272,500	38,384.61	265,000	36,764
95% Buprofezin technical	75,000	10,564.57	75,000	10,405
98% Carbofuran technical	115,000	16,199.01	115,000	15,954
98% Chlorfenapyr technical	304,400	42,878.07	242,300	33,615
95% Chlorfluazuron technical	480,000	67,613.25	475,000	65,898
95% Chlorpyrifos technical	52,500	7,395.2	50,400	6,992
94% Cypermethrin technical	80,000	11,268.88	83,500	11,584
99% Cyromazine technical	160,000	22,537.75	160,000	22,197
98% Deltamethrin technical	530,000	74,656.3	540,000	74,916
95% Diafenthiuron technical	140,000	19,720.53	140,000	19,423
98% Dimethoate technical	47,600	6,704.98	47,600	6,604
70% Emamectin benzoate technical	553,700	77,994.7	530,000	73,528
92% Fenvalerate technical	140,000	19,720.53	135,000	18,729
95% Fipronil technical	565,000	79,586.43	565,000	78,384
98% Hexaflumuron technical	530,000	74,656.3	510,000	70,754







97% Imidacloprid technical	156,900	22,101.08	149,900	20,796
98% Isoprocarb technical	44,000	6,197.88	45,500	6,312
95% Lambda-cyhalothrin technical	200,000	28,172.19	195,000	27,053
90% Malathion technical	37,000	5,211.85	36,000	4,994
95% Methidathion technical	90,000	12,677.48	90,000	12,486
Methomyl 90% SP	75,000	10,564.57	74,000	10,266
98% Methomyl technical	86,000	12,114.04	80,000	11,099
75% Omethoate technical	51,400	7,240.25	51,400	7,131
90% Phoxim technical	45,000	6,338.74	45,000	6,243
90% Profenofos technical	82,665	11,644.27	82,665	11,468
90% Propargite technical	60,000	8,451.66	60,000	8,324
95% Pymetrozine technical	142,500	20,072.68	137,500	19,076
95% Pyridaben technical	104,000	14,649.54	104,000	14,428
97% Spirodiclofen technical	160,000	22,537.75	160,000	22,197
85% Triazophos technical	58,500	8,240.37	59,000	8,185

Note: Ex-works price includes VAT.

Source: CCM

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



**TABLE 19: Shanghai Port prices of major insecticides in China, 8 Nov., 2022**

Product	20221008		20221108	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	576,500	81,206.33	554,500	76,927
97% Acephate technical	58,500	8,240.37	58,500	8,116
95% Acetamiprid technical	145,800	20,537.53	140,100	19,436
95% Azocyclotin technical	190,500	26,834.01	185,500	25,735
95% Beta-Cypermethrin technical	166,900	23,509.69	165,500	22,960
97% Bifenthrin technical	273,000	38,455.04	265,500	36,834
95% Buprofezin technical	75,500	10,635	75,500	10,474
98% Carbofuran technical	115,500	16,269.44	115,500	16,024
98% Chlorfenapyr technical	304,900	42,948.5	242,800	33,684
95% Chlorfluazuron technical	480,500	67,683.68	475,500	65,967
95% Chlorpyrifos technical	53,000	7,465.63	50,900	7,062
94% Cypermethrin technical	80,500	11,339.31	84,000	11,654
99% Cyromazine technical	160,500	22,608.18	160,500	22,267
98% Deltamethrin technical	530,500	74,726.73	540,500	74,985
95% Diafenthiuron technical	140,500	19,790.96	140,500	19,492
98% Dimethoate technical	48,100	6,775.41	48,100	6,673
70% Emamectin benzoate technical	554,200	78,065.13	530,500	73,598
92% Fenvalerate technical	140,500	19,790.96	135,500	18,798
95% Fipronil technical	565,500	79,656.86	565,500	78,453
98% Hexaflumuron technical	530,500	74,726.73	510,500	70,823
97% Imidacloprid technical	157,400	22,171.51	150,400	20,865
98% Isoprocarb technical	44,500	6,268.31	46,000	6,382



95% Lambda-cyhalothrin technical	200,500	28,242.62	195,500	27,122
90% Malathion technical	37,500	5,282.29	36,500	5,064
95% Methidathion technical	90,500	12,747.92	90,500	12,555
Methomyl 90% SP	75,500	10,635	74,500	10,336
98% Methomyl technical	86,500	12,184.47	80,500	11,168
75% Omethoate technical	51,900	7,310.68	51,900	7,200
90% Phoxim technical	45,500	6,409.17	45,500	6,312
90% Profenofos technical	83,165	11,714.7	83,165	11,538
90% Propargite technical	60,500	8,522.09	60,500	8,393
95% Pymetrozine technical	143,000	20,143.11	138,000	19,145
95% Pyridaben technical	104,500	14,719.97	104,500	14,498
97% Spirodiclofen technical	160,500	22,608.18	160,500	22,267
85% Triazophos technical	59,000	8,310.8	59,500	8,255

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 Nov. 2022





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

Product	20221008	20221108
95% Abamectin technical	79,052.12	74,890
97% Acephate technical	7,813.15	7,695
95% Acetamiprid technical	20,053.09	18,981
95% Azocyclotin technical	26,176.28	25,106
95% Beta-Cypermethrin technical	22,136.58	21,620
97% Bifenthrin technical	36,156.11	34,634
95% Buprofezin technical	10,423.12	10,266
98% Carbofuran technical	15,902.48	15,662
98% Chlorfenapyr technical	41,847.25	32,837
95% Chlorfluazuron technical	65,901.65	64,231
95% Chlorpyrifos technical	7,340.97	6,947
94% Cypermethrin technical	10,720.12	11,014
99% Cyromazine technical	21,290.92	20,969
98% Deltamethrin technical	70,180.89	70,422
95% Diafenthiuron technical	18,648.22	18,366
98% Dimethoate technical	6,438.94	6,342
70% Emamectin benzoate technical	75,997.37	71,652
92% Fenvalerate technical	18,648.22	17,716
95% Fipronil technical	77,545.29	76,374
98% Hexaflumuron technical	72,750.85	68,953
97% Imidacloprid technical	21,642.11	20,371
98% Isoprocarb technical	5,963.25	6,068
95% Lambda-cyhalothrin technical	26,576.32	25,524





90% Malathion technical	5,038.31	4,832
95% Methidathion technical	12,477.88	12,289
Methomyl 90% SP	10,423.12	10,131
98% Methomyl technical	12,990.2	11,912
75% Omethoate technical	6,941.05	6,836
90% Phoxim technical	6,273.77	6,179
90% Profenofos technical	11,072.26	10,905
90% Propargite technical	8,368.35	8,242
95% Pymetrozine technical	18,978.56	18,041
95% Pyridaben technical	14,395.65	14,178
97% Spirodiclofen technical	21,290.92	20,969
85% Triazophos technical	8,162.88	8,107

*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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