

# Insecticide China Monthly Report 202201

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### Headline

Jiangsu Changqing planned to remove production lines away from the 1-km range from the river banks in its plant in Jiangdu Development Zone along the Yangtze River, Yangzhou City, Jiangsu Province. The company would retain existing capacity of 19 pesticides TC outside the 1-km range and slash that of other products during the process.

Aiming for long-term development, Hebei Yetian plans to expand its acetamiprid TC capacity to 3,000 t/a. Previously, the company had its capacity of CCMP and imidacloprid TC ballooned, and large-scale production facilities for 2-chloro-5-chloromethylthiazole, thiamethoxam TC and clothianidin TC built up.

Jiangxi Huihe plans to build production capacity of 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC, 200 t/a flusilazole TC and 900 t/a tebuconazole TC. The products concerned are popular insecticides and fungicides TC in Chinese market.

Downtrend in ex-works prices of insecticide TC products in China continued in general in Jan. 2022.

Ex-works price of domestic propargite technical in late Jan. edged up 2%–3% from the price recorded early this month, due to tight supply. It is expected the price will go higher in the near future.

Although ex-works prices of insecticides TC in China went south at the beginning of 2022, the prices saw great increases in 2021. Looking back, we can see main driving forces for price hikes were environmental protection and supervision over work safety in H1 2021, as well as power rationing and ensuing production restriction in H2.

Jiangxi Hetian had pesticide registration certificates of 9 products transferred from its parent company Zhejiang Hetian. This move would facilitate the development of Jiangxi Hetian.

NATESC estimates relatively heavy occurrence of major pests & diseases on wheat across China in general in 2022. Although currently afflicted area is smaller than that in the past few years, the humid and mild weather in many regions provides favourable condition for pests to survive this winter. Special attention should be paid to the prevention and control of wheat aphids and wheat spiders.

The Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks (for Trial Implementation) was jointly released by six ministries on 6 Jan. It is worth noting that three requirements are set out on establishment of new chemical industrial parks.

During 14th Five-Year Period, at least 10 highly toxic pesticide AIs will be phased out step by step in China. As a part of the effort, MARA had solicited public opinions on measures for phasing out phorate, isofenphos-methyl, isocarbophos and ethoprophos till 21 Jan.

According to the import and export data from Tranalysis, in Q3 2021, China's lambda-cyhalothrin was mainly exported to 22 destinations, including Benin, Nigeria, Ghana, the US and Bangladesh. A total of 3,226.19 tonnes (actual volume), or 602.12 tonnes (100% AI volume) of lambda-cyhalothrin products were exported from China in this period.







### Editor's note

Entering 2022, ex-works prices of insecticides TC in China started with a decline, in contrast to great increases witnessed in 2021. In Jan., 2022, prices of many organophosphorus, pyrethroid and nicotinoid insecticides TC were set lower.

As for company dynamics, Hebei Yetian has planned to expand its acetamiprid TC capacity to 3,000 t/a, and Jiangxi Huihe proposed new capacity of 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC, 200 t/a flusilazole TC and 900 t/a tebuconazole TC. While Jiangsu Changqing, to protect the eco-environment of the Yangtze River, has put the removal on its agenda from the 1-km range from the banks of the river; it will cut the number of production workshops to 15 and retain commercial production of 19 pesticide TC products in its riverside plant in Jiangdu Development Zone.

As for registration, a fenthion product for the prevention and control of thrips was approved for the first time in China.

As for pests, it is predicted relatively heavy occurrence of major pests & diseases on wheat across China in general in 2022.

Besides, during 14th Five-Year Period, at least 10 highly toxic pesticide AIs will be phased out step by step in China. As a part of the effort, MARA solicited public opinions on measures for phasing out phorate, isofenphos-methyl, isocarbophos and ethoprophos till 21 Jan., 2022.

The USD/CNY exchange rate in this newsletter is USD1.00=CNY6.3794 on 4 January, 2022, sourced from the People's Bank of China. All the prices mentioned in this newsletter will include the VAT, unless otherwise specified.





## Company dynamics

### Jiangsu Changqing to retain capacity of 19 pesticides TC in Yangzhou base after relocation

Summary: Jiangsu Changqing planned to remove production lines away from the 1-km range from the river banks in its plant in Jiangdu Development Zone along the Yangtze River, Yangzhou City, Jiangsu Province. The company would retain existing capacity of 19 pesticides TC outside the 1-km range and slash that of other products during the process.

Jiangsu Changqing Agrochemical Co., Ltd. (Jiangsu Changqing) announced that it had set up a riverside plant within-site relocation project late 2021, following the relocation plan decided in a special coordination meeting hosted by the Yangzhou Municipal Government. The project is set to remove all its production facilities from the 1-km range from the river banks to other area within the same plant in Jiangdu Development Zone along the Yangtze River. It would also cut the number of production workshops to 15 and retain commercial production of 19 pesticide TC products (capacity of these products unchanged). Based on the plan and currently existing production capacity of Jiangsu Changqing, it is believed that production lines for 1,000 t/a benzofuranone, 1,000 t/a diammonium phosphate, 400 t/a epoxiconazole TC and 200 t/a indoxacarb TC are to be removed for good.

Jiangsu Changqing is a key and modernised pesticide producer. It has been devoted to R&D, production and sales of pesticide products since establishment. At present, it has four major production bases:

- Jiangsu Changqing: Jiangdu District, Yangzhou City, Jiangsu Province
- Jiangsu Changqing Bio-tech Co., Ltd.: Putou County, Jiangdu District, Yangzhou City, Jiangsu Province
- Jiangsu Changqing Agrochemical (Nantong) Co., Ltd.: Yangkou Chemical Industrial Park, Rudong County, Nantong City, Jiangsu Province
- Changqing (Hubei) Bio-tech Co., Ltd.: Baiyang Industrial Park, High-tech Development Zone, Yichang City, Hubei Province. The subsidiary was founded in 2019. Notably, its 13,700 t/a pesticides TC and 8,500 t/a chemicals project was put into operation in Nov. 2021, and the capacity would be put to full use step by step, bringing in economic benefits.



TABLE 1: Production bases and products of Jiangsu Changqing

Base	Enterprise	Product
Yangzhou base (Jiangsu Province)	Jiangsu Changqing Agrochemical Co., Ltd.	Mainly pesticide TC products, production capacity (after relocation) includes: 3,000 t/a imidacloprid TC, 2,400 t/a fomesafen TC, 1,200 t/a diafenthiuron TC, 1,000 t/a bromoxynil octanoate TC, 600 t/a tricyclazole TC, 500 t/a clethodim TC, 500 t/a fenoxanil TC, 500 t/a fipronil TC, 450 t/a triasulfuron TC, 400 t/a mesotrione TC, 300 t/a nicosulfuron TC, 300 t/a thiamethoxam TC, 200 t/a acifluorfen TC, 200 t/a azoxystrobin TC, 150 t/a clomazone TC, 100 t/a prosulfuron TC, 100 t/a lactofen TC, 60 t/a fluoroglycofen-ethyl TC and 10 t/a dimethomorph TC.
	Jiangsu Changqing Bio-tech Co., Ltd.	Mainly pesticide formulation products.
Nantong base (Jiangsu Province)	Jiangsu Changqing Agrochemical (Nantong) Co., Ltd.	Mainly pesticide TC products and intermediates, production capacity includes: 11,000 t/a dicamba TC, 3,000 t/a S-metolachlor TC, 2,000 t/a fomesafen TC, 1,600 t/a diafenthiuron TC, 1,000 t/a acetamiprid TC, 500 t/a acifluorfen TC, 500 t/a clomazone TC, 300 t/a epoxiconazole TC, 5,000 t/a hydroxylamine hydrochloride and 2,000 t/a 2-chloro-5-(chloromethyl)pyridine.
Yichang base (Hubei Province)	Changqing (Hubei) Bio-tech Co., Ltd.	Phase I—13,700 t/a pesticides TC and 8,500 t/a chemicals project, which includes: 3,000 t/a thiamethoxam TC, 2,000 t/a lambda-cyhalothrin TC, 2,000 t/a fomesafen TC, 1,600 t/a diafenthiuron TC, 1,500 t/a acetamiprid TC, 1,000 t/a bifenthrin TC, 1,000 t/a chlorantraniliprole TC, 600 t/a fipronil TC, 500 t/a nicosulfuron TC, 500 t/a fluazinam TC, 5,000 t/a benzofuranone acetic anhydride solution, 2,000 t/a diisopropylamine and 1,500 t/a benzofuranone. Phase II—16,500 t/a pesticides TC and 20,000 t/a chemicals project, which includes: 10,000 t/a S-metolachlor TC, 3,500 t/a glufosinate-ammonium TC, 1,000 t/a mesotrione TC, 1,000 t/a prothioconazole TC, 500 t/a lufenuron TC, 500 t/a fenoxanil TC, 10,000 t/a 6-ethyl-o-toluidine (MEA), 6,000 t/a 2-chlorobenzyl chloride and 4,000 t/a 3,4-dichlorobenzotrifluoride.

Source:CCM

### Hebei Yetian to expand its acetamiprid TC capacity almost tenfold

Summary: Aiming for long-term development, Hebei Yetian plans to expand its acetamiprid TC capacity to 3,000 t/a. Previously, the company had its capacity of CCMP and imidacloprid TC ballooned, and large-scale production facilities for 2-chloro-5-chloromethylthiazole, thiamethoxam TC and clothianidin TC built up.

On 10 Jan., Hebei Yetian Agrochemicals Co., Ltd. (Hebei Yetian) announced that it planned to expand the acetamiprid TC capacity to 3,000 t/a in its plant in Yuanshi Chengnan Industrial Zone, Shijiazhuang City, Hebei Province. The plant has a single production line for acetamiprid TC (332.5 t/a), but it has long been in suspension, together with 4,000 t/a pesticide formulation production facilities; this plant also boasts 4,000 t/a 2-chloro-5-(chloromethyl)pyridine (CCMP) production facilities, in active operation. Once completed, the expansion



project will revitalise its acetamiprid TC production, and grant the company a competitive edge in acetamiprid TC business supported by presence in both the upstream and downstream.

At present, main products of Hebei Yetian are: CCMP, 2-chloro-5-chloromethylthiazole, imidacloprid TC, thiamethoxam TC and clothianidin TC. The company has developed into a big pesticide provider in North China. It upgraded and transformed itself after a series of profound laws and regulations rolled out in a short time on work safety and environmental protection and stricter supervision and renovation requirements introduced. Along the way, Hebei Yetian invested a lot to boost its competitiveness and turned the pressures into impetus for better growth. Since 2016, it has several projects accomplished in this Shijiazhuang base, including: upgrading and transform project for comprehensive treatment of waste gas, waste water treatment project, energy conservation & emission reduction upgrading project for heat conduction oil furnace, hazardous waste treatment technological upgrading project, renovation project of in-plant hazardous waste burning, 4,000 t/a CCMP expansion project, 5,000 t/a imidacloprid TC expansion project, and the project of 5,000 t/a 2-chloro-5-chloromethylthiazole, 4,000 t/a thiamethoxam TC and 1,000 t/a clothianidin TC. Specifically:

- CCMP: expanded by 3,200 t/a, the production lines were put into operation in 2018.
- Imidacloprid TC: expanded from the previous 665 t/a, the lines went into operation in 2019.
- 2-Chloro-5-chloromethylthiazole, thiamethoxam TC and clothianidin TC: the lines went into operation in 2020.

All these lines are in operation at present.

It can be seen that Hebei Yetian has taken active measures to form an advantage of upstream-downstream integration. Its project features the intermediate 2-chloro-5-chloromethylthiazole, thiamethoxam TC and clothianidin TC is a good example, as the former is a key material for the latter two. Similarly, its existing 4,000 t/a CCMP capacity and the planned 3,000 t/a acetamiprid TC capacity means the company could expect stronger say in the acetamiprid market. CCMP is a key intermediate for the production of acetamiprid and imidacloprid; its supply could directly affect the market situation of the two products.

### **Jiangxi Huihe plans new capacity for multiple pesticide TC products**

Summary: Jiangxi Huihe plans to build production capacity of 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC, 200 t/a flusilazole TC and 900 t/a tebuconazole TC. The products concerned are popular insecticides and fungicides TC in Chinese market.

On 23 Jan., Jiangxi Huihe Chemical Co., Ltd. (Jiangxi Huihe) announced that it had started application formalities for the 3,000 t/a high efficacy pesticides project. The company intends to form new production capacity of 600 t/a chlorantraniliprole TC, 500 t/a dinotefuran TC, 500 t/a flonicamid TC, 300 t/a spirotetramat TC, 200 t/a flusilazole TC and 900 t/a tebuconazole TC.

Jiangxi Huihe, a wholly-owned subsidiary of Jiangxi Zhengbang Crop Protection Co., Ltd. (Jiangxi Zhengbang), is located in Xinghuo Industrial Zone, Yongxiu County, Jiujiang City, Jiangxi Province. The plant, already boasting production facilities for 2,000 t/a prochloraz TC as well as many pesticide formulation products, is an important production base for Jiangxi Zhengbang.

According to Jiangxi Huihe, it has multiple advantages to carry out this project, including:







- Policy support: Xinghuo Industrial Zone is a recognised chemical park and pesticide industry is one of the industries the park is positioned to develop. Many pesticide enterprises have entered the park. This grants Jiangxi Huihe better chances for project approval and more smooth construction and operation in the future.
- Land resources: The company has large unused land within its plant. Currently, constructed production lines take up a small portion of the land it has. This project can make better use of the land resources as well as build up its strength.

Of the products proposed in the 3,000 t/a high efficacy pesticides project, chlorantraniliprole TC, dinotefuran TC, flonicamid TC and spirotetramat TC are hot insecticide products, while flusilazole TC and tebuconazole TC are popular fungicide products. Once completed, the capacity will help Jiangxi Huihe explore new markets.

So far, Jiangxi Huihe has already acquired pesticide registration certificates for 98% dinotefuran TC, 97% flonicamid TC, 97% spirotetramat TC, 95% flusilazole TC, 95% tebuconazole TC, 97% prochloraz TC and 98% penoxsulam TC. However, registration certificate of chlorantraniliprole TC is yet to obtain.

The project will also serve the overall development strategy of Jiangxi Zhengbang. Next step, it would develop formulation products containing the six ingredients that Jiangxi Huihe now focuses on. Jiangxi Zhengbang has much larger capacity of pesticide formulations than that of TC products. It is widely known that expenses on TC products usually make up great proportion of total production cost in producing formulations. And if the pesticides TC it purchases experience rising prices or are out of stock, Jiangxi Zhengbang will face mounting cost or insufficient raw materials, which will deliver a heavy blow to its formulation business. Especially in today's China, ever more strict requirements on environmental protection and workplace safety, and deepening structural reform on supply-side have put many pesticide TC producers to the test. Pesticide enterprises have to take active measures to adapt to the new normal.





## Market analysis

### 2022 starts with falling prices of insecticide TC

Summary: Downtrend in ex-works prices of insecticide TC products in China continued in general in Jan. 2022.

In Jan. 2022, downtrend in ex-works prices of most insecticide TC products in China continued, since downstream demand was flat and raw material price cannot provide effective support.

Prices of many organophosphorus insecticides were set lower, following inactive purchase from downstream sectors and stabilised raw material prices. Sluggish demand from chlorpyrifos formulation producers dragged down the price of chlorpyrifos TC. Ex-works price of phoxim TC started to fall and that of profenofos TC stopped increasing. However, the price of malathion TC kept going up under larger overseas orders recently.

Ex-works price of pyrethroid insecticide TC generally dropped against flat demand. An exception is cypermethrin TC. Its price enjoyed a MoM increase this month, but it is expected to become stable soon. Meanwhile, raw materials like 3-phenoxy-benzaldehyde and methyl 3,3-dimethylpent-4-enoate saw stable prices, with slight decreases for some though.

The majority of nicotinoid insecticide TC products experienced falling prices again. Although operating rates of producers of imidacloprid TC, acetamiprid TC and thiamethoxam TC were at low level, weak demand pushed their prices down further. However, nitenpyram TC saw a jump in its price due to tight market supply. As to raw material, prices of dicyclopentadiene and 2-chloro-5-(chloromethyl)pyridine (CCMP) stayed high, yet they failed to encourage an uptrend in prices of nicotinoid insecticides TC.



**TABLE 2:** Ex-works prices of major insecticide TC products in China in early and mid-Jan.

Product	Category	Ex-works price (RMB/t)	Ex-works price (USD/t)	MoM change
Chlorpyrifos TC	Organophosphorus insecticide	49,700	7,790.70	Down
Phoxim TC	Organophosphorus insecticide	45,000	7,053.95	Down
Profenofos TC	Organophosphorus insecticide	87,000	13,637.65	Basically flat
Malathion TC	Organophosphorus insecticide	31,450	4,929.93	Up
Beta-cypermethrin TC	Pyrethroid insecticide	185,000	28,999.59	Down
Cypermethrin TC	Pyrethroid insecticide	99,000	15,518.70	Up
Bifenthrin TC	Pyrethroid insecticide	355,000	55,647.87	Down
Imidacloprid TC	Nicotinoid insecticide	210,000	32,918.46	Down
Acetamiprid TC	Nicotinoid insecticide	210,000	32,918.46	Down
Thiamethoxam TC	Nicotinoid insecticide	129,000	20,221.34	Down
Nitenpyram TC	Nicotinoid insecticide	250,000	39,188.64	Up

Source:CCM

### Propargite price edges up through Jan. due to tight supply

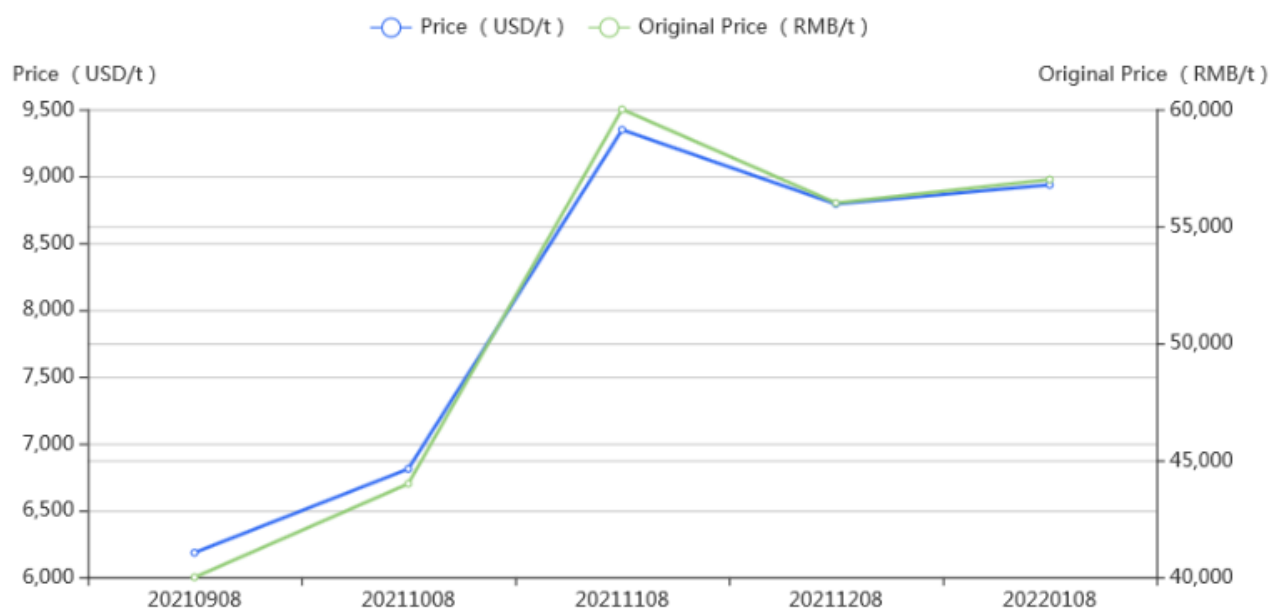
Summary: Ex-works price of domestic propargite technical in late Jan. edged up 2%–3% from the price recorded early this month, due to tight supply. It is expected the price will go higher in the near future.

Late Jan., uptrend in the ex-works price of propargite technical in China continued; the price climbed up 2%–3% over that in early Jan. Shortage of propargite technical on the market led to this situation.

Currently, of major domestic propargite producers, only Qingdao Hansen Biologic Science Co., Ltd. can supply normally, but its orders have already been arranged to dates after the Spring Festival. Production in Zhejiang Hetian Chemical Co., Ltd. and Hubei Xianlong Chemical Industry Co., Ltd. is halted. Propargite technical is hard to find on spot market now.

It is estimated that the price of propargite technical will keep going up into March, encouraged by small supply and previously depleted inventory, even though demand for the product is not large.



**FIGURE 1:** Ex-works price of propargite technical in China, Sept. 2021–Jan. 2022

Source:CCM

### Insecticide TC price trend summary in 2021

Summary: Although ex-works prices of insecticides TC in China went south at the beginning of 2022, the prices saw great increases in 2021. Looking back, we can see main driving forces for price hikes were environmental protection and supervision over work safety in H1 2021, as well as power rationing and ensuing production restriction in H2.

In Q1 2021, ex-works prices of insecticides TC in China jumped in Jan. and March, but declined in Feb. In Jan., supply of raw materials of nicotinoid insecticides was affected by COVID-19 cases, so prices of these insecticides rose. In March, prices of basic raw material chemicals stayed high after previous soar, plus supervision over workplace safety becoming stricter, which pushed up quotations of many insecticides TC. Another reason was supply shortage: products like imidacloprid TC, acetamiprid TC, monosultap TC, propargite TC and chlorfluazuron TC suffered different degrees of tight supply. But prices of some products showed signs to fall.

Halfway into 2021, most of the main insecticides TC in China saw ex-works prices ascend. Prices of nicotinoid insecticides went up and imidacloprid TC, in particular, had big jumps, being in short supply. Relatively tight supply of many pyrethroid insecticides helped keep the prices at a high level under slack demand. In July and Aug., prices slipped. Prices of some products stabilised or went down after small fluctuations for lack of downstream demand. During that period, domestic insecticide TC market experienced small supply as well as sluggish demand.

From Sept., raw material cost started to go up and China's insecticides TC producers lowered their operating rates, which were caused by power rationing and production restriction. Prices of insecticides rose accordingly, shooting up greatly in Oct., up over 20% on average. Specifically, growth of pyrethroid insecticide TC prices was close to the average, and nicotinoid insecticides registered largest increase, with an average rate surpassing 50%. Uptrend in ex-works prices of insecticides TC continued in Nov. and Dec., the pace slowing down





though.

**TABLE 3:** Price index of insecticides in China, Jan.–Nov. 2021

Month	Price index of insecticides	MoM change
January	107.66	Up
February	106.03	Down
March	111.35	Up
April	112.27	Up
May	112.32	Up
June	114.10	Up
July	113.07	Down
August	112.93	Down
September	115.28	Up
October	130.16	Up
November	143.10	Up

Source: China Crop Protection Industry Association





## Registration

**Jiangxi Hetian obtains multiple pesticide registrations through transfer**

Summary: Jiangxi Hetian had pesticide registration certificates of 9 products transferred from its parent company Zhejiang Hetian. This move would facilitate the development of Jiangxi Hetian.

On 16 Jan., Jiangxi Hetian Technology Co., Ltd. (Jiangxi Hetian) announced that it had obtained pesticide registrations of 9 products through change of holder by the end of 2021. This transfer was made as a part of strategic resources reassignment by its parent company Zhejiang Hetian Chemical Co., Ltd. (Zhejiang Hetian). Zhejiang Hetian once was a wholly-owned subsidiary of Zhejiang Research Institute of Chemical Industry Co., Ltd. (ZRICI), but now just 49% shares are owned by ZRICI.

The newly acquired 9 registrations will facilitate the development of Jiangxi Hetian, and the company should not stop here but actively expand its registration resources in the future, which could then open the door to markets of other pesticides.

**TABLE 4:** Pesticide registrations of Jiangxi Hetian, as of Jan. 2022

No.	Registration No.	Product	Category	Valid until
1	PD20161036	98% Fluazinam TC	Fungicide	2026/8/30
2	PD20151573	98% Benmijunzhi TC	Fungicide	2025/8/28
3	PD20150777	98% Lufenuron TC	Insecticide	2025/5/13
4	PD20141524	500g/L Fluazinam SC	Fungicide	2024/6/16
5	PD20184030	95% Tebuthiuron TC	Herbicide	2023/8/29
6	PD20184029	46% Tebuthiuron SC	Herbicide	2023/8/29
7	PD20080271	95% Flumetralin TC	Plant growth regulator	2023/2/20
8	PD20121799	98% Flumetsulam TC	Herbicide	2022/11/22
9	PD20172627	80% Flumetsulam WG	Herbicide	2022/11/20

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

Founded in Feb. 2019, Jiangxi Hetian is 100% owned by Zhejiang Hetian. It is located in Fine Chemical Industrial Zone, Xingan Salt Chemical Industrial Park, Ji'an City, Jiangxi Province. The park is also home to pesticide enterprises like Jiangxi Tianyu Chemical Co., Ltd. and Jiangxi Oushi Chemical Co., Ltd. Currently, the company has production facilities under construction for the project of 6,000 t/a pesticides TC, 2,800 t/a pesticide formulations and 200 t/a organic intermediates. The project covers products propargite TC, flumetralin TC, fluazinam TC, flumetsulam TC, tebuthiuron TC, fenhexamid TC, lufenuron TC, cyhalodiamide TC, 12.50% flumetralin EC, 25% flumetralin EC, 73% propargite EC, 25% flumetralin SC, 500g/L fluazinam SC, 80% flumetsulam WG, 20% tebuthiuron GR and





intermediate 2-methyl-4-(1,1,1,2,3,3,3-heptafluoro-2-propyl) aniline. Among them, cyhalodiamide is a highly active insecticide independently developed by ZRICI in 2010, which has good performance against Lepidoptera pests, rice stem borers in particular.

It's worth mentioning that the close of Lianyungang Hetian Chemical Co., Ltd. (Lianyungang Hetian)'s factory in Lianyungang Chemical Park in Jiangsu Province is one the major factors pushed Zhejiang Hetian to set up Jiangxi Hetian. Lianyungang Hetian once had production capacity of 1,500 t/a 2-methylamino-5-tert-butyl-1,3,4-thiadiazole, 100 t/a triazolopyrimidine sulfonamide, 1,000 t/a tebuthiuron TC, 100 t/a flumetsulam TC, 50 t/a benmijunzhi TC, 200 t/a benfuracarb TC and 250 t/a fluazinam TC, but its factory was forced into suspension and rectification starting from April 2018 and later into closedown, under the influence of higher requirements on work safety and environmental protection. With this, the pesticide registrations under Lianyungang Hetian were transferred to Zhejiang Hetian. As of 16 Jan., 2022, Zhejiang Hetian directly held 15 pesticide registrations.

**TABLE 5:** Pesticide registrations of Zhejiang Hetian, as of Jan. 2022

No.	Registration No.	Product	Category	Valid until
1	PD20161013	40% Fluazinam·benmijunzhi SC	Fungicide	2026/8/30
2	PD20152615	540g/L Thidiazuron·diuron SC	Plant growth regulator	2025/12/17
3	PD20151574	10% Benmijunzhi SC	Fungicide	2025/8/28
4	PD20151256	500g/L Fluazinam SC	Fungicide	2025/7/30
5	PD20150794	97% Flumetralin TC	Plant growth regulator	2025/5/14
6	PD20150075	25% Flumetralin SC	Plant growth regulator	2025/1/5
7	PD20141525	98% Fluazinam TC	Fungicide	2024/6/16
8	PD20085709	125g/L Flumetralin EC	Plant growth regulator	2023/12/26
9	PD20083905	40% Propargite EC	Acaricide	2023/12/15
10	PD20083833	73% Propargite EC	Acaricide	2023/12/15
11	PD20083671	90% Propargite TC	Acaricide	2023/12/15
12	PD20081934	90% Carbosulfan TC	Insecticide	2023/11/24
13	PD20081794	20% Carbosulfan EC	Insecticide	2023/11/19
14	PD20081670	25% Flumetralin EC	Plant growth regulator	2023/11/17
15	PD20181855	40% Fluazinam·dimethomorph SC	Fungicide	2023/5/16

Source:ICAMA





## Pest

### NATESC: relatively heavy occurrence of major pests & diseases on wheat in 2022

Summary: NATESC estimates relatively heavy occurrence of major pests & diseases on wheat across China in general in 2022. Although currently afflicted area is smaller than that in the past few years, the humid and mild weather in many regions provides favourable condition for pests to survive this winter. Special attention should be paid to the prevention and control of wheat aphids and wheat spiders.

Early Jan., National Agro-Tech Extension and Service Centre (NATESC) forecasted relatively heavy occurrence of major pests & diseases on wheat across China in general in 2022, which may affect a total area of 54 million ha, including 27.33 million ha affected by diseases and 26.66 million ha by pests. Generally speaking, though currently afflicted area is less than figures in the past few years, the humid and mild weather in many regions provides favourable condition for pests to survive this winter.

#### Occurrence of major pests on wheat

- Wheat aphid

Occurrence area of wheat aphids is estimated at 14 million ha. Relatively heavy to heavy occurrence would take place in Huang-Huai-Hai Region, such as Henan, Shandong, Hebei and Shanxi, while moderate occurrence in most part of Yangtze-Huai Plain, Southwest China and Northwest China.

Occurrence on autumn wheat seedlings was small and of sparse aphid population. But population in some parts of Yangtze-Huai Plain was slightly higher. As of early Dec., 2021, the affected area was 452,667 ha, down 27.6% from that in the same period of 2020 and 36.8% from the average in 2018–2020. Average aphid population per 100 plants was 5, down 54.3% compared with the figure recorded in the same period of 2020 and 51.0% compared with the average in 2018–2020. Specifically, Anhui registered an average of 22.7 aphids per 100 plants, up 43.7% from that in the same period of 2020, and Dangtu County (in Anhui Province) reported a striking 300 aphids per 100 plants. The figure in Shandong and Shanxi averaged at 8 and 6.5 respectively, and that in Henan, Hebei and Shaanxi fell within the range of 0.6–2.5, all below regional figures recorded in 2020.

- Wheat spider

Wide occurrence of wheat spider is expected in most of wheat growing regions across China. Moderate occurrence would be found in middle and western North China, western Huang-Huai Area and middle and eastern Northwest China. From late 2021 to early 2022, the affected area was small. As of early Dec., 2021, affected area in Yangtze-Huai Plain, Huang-Huai Area, North China and Northwest China all shrank YoY.

- Other pests

Moderate occurrence of underground pests, first-generation armyworm and wheat stem sawfly is expected in West China & North China, southern parts of Yangtze-Huai Plain & Huang-Huai Area, and middle and western Northwest respectively. Pests like wheat blossom midge, cotton bollworm and locust may also cause certain damage in some wheat growing regions. Altogether, the affected area would reach 6.67 million ha.







Wheat blossom midge, in particular, has sparse population in previously-frequented areas in Huang-Huai-Hai Region and Northwest at present. A survey done in autumn 2021 shows that average quantity per quadrat was 0.2 in Henan, 0.4 in Hebei and 0.9 in Shaanxi, down 23.0%, 34.5% and 9.1% YoY, respectively. High-density samples were 20 and 22 in Xixia County and Changyuan County (both in Henan Province) and 13 in Zhengding County (in Hebei Province), all down significantly from those in the same period of 2020 as well as the average in 2018–2020.

The National Climate Centre forecasted higher temperature in Yangtze-Huai Plain, Huang-Huai Area and eastern North China, and nearly the same or larger amount of precipitation in most parts of Huang-Huai Area, southern North China and Yangtze-Huai Plain, during Jan. –Dec. 2022. The coming spring season would see higher temperature in most wheat growing regions, except western Southwest China. Wheat aphids and spiders thus can better survive the winter and rage in warmer days.





## Policy

### National construction standards for chemical industrial parks released

Summary: The *Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks (for Trial Implementation)* was jointly released by six ministries on 6 Jan. It is worth noting that three requirements are set out on establishment of new chemical industrial parks.

The *Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks (for Trial Implementation)* was jointly released on 6 Jan. by Ministry of Industry and Information Technology, Ministry of Natural Resources, Ministry of Ecology and Environment, Ministry of Housing and Urban-Rural Development, Ministry of Transport and Ministry of Emergency Management. The Measures has five chapters and 26 articles. It aims to further regulate construction, identification and management of chemical industrial parks, and thus improve safety and eco-friendliness in these parks.

According to the document, construction standards for chemical industrial parks take 12 aspects into consideration, such as management organ, site selection and layout, industry planning, safety and environmental protection, hazardous waste disposal. As to chemical industrial park identification, the task shall be undertaken by governments at provincial level or by institutions authorised by them.

Notably, there are five articles concerned with new chemical project under the chapter park management. It specifies that if a park is not identified as a chemical park, new construction or reconstruction/expansion chemical projects within the site shall not be allowed, except for transformation to improve safety, environment, energy-saving and smartness. And rectification or closure of failed parks, and supervision over and other handlings with enterprises in the failed ones shall obey existing laws and regulations. Regarding setting up a new chemical industrial park, it shall be approved by governments at provincial level or by authorised institutions. New chemical projects planned by enterprises to enter such parks shall be in compliance with local or national industrial planning and first get approval from governments at provincial level or by authorised institutions. Moreover, the parks accommodate such projects shall get identified successfully before the projects could be put into operation.

The Measures also requires regular self-evaluation and official review of identified chemical industrial parks. If a park is reviewed as below-standard, or suffers any major and above-level workplace accident or environmental emergency, rectification work shall be carried out within a designated time period and in accordance with related laws & regulations. Throughout the rectification period, procedures for new and reconstruction/expansion projects (safety, environmental protection, energy-saving and smart upgrading projects excluded) shall be halted. After going through rectification yet still deemed unqualified, such parks shall be disqualified from being chemical industrial park.

### At least 10 highly toxic pesticides be phased out in China during 14th Five-year Period

Summary: During 14<sup>th</sup> Five-Year Period, at least 10 highly toxic pesticide AIs will be phased out step by step in China. As a part of the effort, MARA had solicited public opinions on measures for phasing out phorate, isofenphos-methyl, isocarbophos and ethoprophos till 21 Jan.





The Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) had solicited public opinions on measures for phasing out phorate, isofenphos-methyl, isocarbophos and ethoprophos till 21 Jan. According to the drafted measures, pesticide registrations and production permits of technical and formulation products containing the four active ingredients (AI) shall be revoked by issuing authorities, and the production banned since 1 March, 2022. Sales and use of these products shall be prohibited from 1 March, 2024.

On 29 Dec., 2021, MARA issued the 14<sup>th</sup> *Five-year Plan for National Planting Industry Development (2021–2025)*. The plan requires high-quality development of the pesticide industry, adjust & optimise product structure, and encourage scientific, technological innovation & upgrading in pesticide enterprises. Highly toxic pesticides that pose high risks to the environment and people shall be phased out step by step; 10 AIs falling under this category are specified in the document, which are: phorate, isofenphos-methyl, isocarbophos, ethoprophos, aldicarb, omethoate, methomyl, carbofuran, aluminium phosphide and chloropicrin. Speed up development and promotion of new high-efficacy low-risk pesticides, as well as R&D on substitutes to highly toxic products.

So far China has announced bans on 46 pesticide ingredients and restricted use of 23 ingredients. Reasons for a ban include but are not limited to: carcinogenic and teratogenic elements, extremely or highly toxic characteristics, long residual effect, high residue level, unbearable risks to the environment, pollution to underground water. In accordance with requirements set out in the *Opinions on Deepening Reform and Strengthening Food Safety* published in 2019, the 10 highly toxic AIs still used on crop fields shall be phased out within five years, in an orderly manner and taking into consideration risk severity as well as availability of alternatives. All in all, at least these 10 highly toxic AIs will have fallen out of use in China by the end of 2025.





## Import and export

### China's lambda-cyhalothrin exports to major destinations in Q3 2021

Summary: According to the import and export data from Tranalysis, in Q3 2021, China's lambda-cyhalothrin was mainly exported to 22 destinations, including Benin, Nigeria, Ghana, the US and Bangladesh. A total of 3,226.19 tonnes (actual volume), or 602.12 tonnes (100% AI volume) of lambda-cyhalothrin products were exported from China in this period.

According to the import and export data from Tranalysis, in Q3 2021, China's lambda-cyhalothrin was mainly exported to 22 destinations including Benin, Nigeria, Ghana, the US, and Bangladesh. These regions imported a total of 3,226.19 tonnes (actual volume) or 602.12 tonnes (100% AI volume) of lambda-cyhalothrin products from China. The data was updated on 7 Jan., 2022.

Here's the information of China's lambda-cyhalothrin exports in Q3 2021.

#### Lambda-cyhalothrin formulations

- Major products: 25g/L lambda-cyhalothrin EC, 50g/L lambda-cyhalothrin EC, 10% lambda-cyhalothrin WP, 25g/L lambda-cyhalothrin EW and 10% lambda-cyhalothrin SC.
- Major export destinations: Altogether 2,690.51 tonnes (actual volume) of lambda-cyhalothrin formulations were exported to the major destinations at an average price of USD2.46/kg. The biggest importer was Benin, which purchased 1,167.35 tonnes (actual volume) of lambda-cyhalothrin formulations from China, accounting for 43.39% of China's total exports of lambda-cyhalothrin formulations in Q3 2021.
- Major exporters: The top three exporters of lambda-cyhalothrin formulations were Firmsea Industrial Company Limited, Jiangsu Trustchem Co., Ltd., and Nanjing Peters Farm Bio-technology Co., Ltd. They exported 1,610.58 tonnes (actual volume) of lambda-cyhalothrin formulations in total in Q3 2021, making up 59.86% of China's total lambda-cyhalothrin formulation exports in the period.

#### Lambda-cyhalothrin TC

- Major products: 95% lambda-cyhalothrin TC and 96% lambda-cyhalothrin TC.
- Major export destinations: Altogether 535.69 tonnes (actual volume) of lambda-cyhalothrin TC were exported from China at an average price of USD26.50/kg. The biggest importer was the US, which imported 284.04 tonnes (actual volume) of lambda-cyhalothrin TC from China, accounting for 53.02% of China's total lambda-cyhalothrin TC exports in the period.
- Major exporters: The top three lambda-cyhalothrin TC exporters were Youth Chemical Co., Ltd., Guangzhou Liwei Chemical Technology Co., Ltd., Ltd., and Adama Makhteshim Ltd. They exported 295.62 tonnes (actual volume) of lambda-cyhalothrin TC in Q3 2021, which accounts for 55.18% of China's total lambda-cyhalothrin TC exports in the period.



**TABLE 6:** Exports of China's lambda-cyhalothrin formulations to major destinations in Q3 2021

No.	Specification	Volume, kg	Average price, USD/kg
1	25g/L Lambda-cyhalothrin EC	2,437,104	2.32
2	50g/L Lambda-cyhalothrin EC	121,303	3.84
3	10% Lambda-cyhalothrin WP	104,801	3.03
4	25g/L Lambda-cyhalothrin EW	16,000	8.99
5	10% Lambda-cyhalothrin SC	11,300	3.80
<b>Total</b>		<b>2,690,508</b>	<b>2.46</b>

Note: The data, sourced from Tranalysis, were updated to 7 Jan., 2022.

Source: Tranalysis

**TABLE 7:** Exports of China's lambda-cyhalothrin TC to major destinations in Q3 2021

No.	Specification	Volume, kg	Average price, USD/kg
1	95% Lambda-cyhalothrin TC	462,386	26.39
2	96% Lambda-cyhalothrin TC	73,300	27.22
<b>Total</b>		<b>535,686</b>	<b>26.50</b>

Note: The data, sourced from Tranalysis, were updated to 7 Jan., 2022.

Source: Tranalysis



**TABLE 8:** Major export destinations of lambda-cyhalothrin formulations from China in Q3 2021

No.	Destination	Volume, kg
1	Benin	1,167,348
2	Nigeria	476,516
3	Ghana	448,712
4	Bangladesh	141,841
5	Bolivia	128,900
6	Uganda	88,801
7	Tanzania	71,410
8	Indonesia	47,644
9	The Philippines	39,316
10	Paraguay	26,000
11	Colombia	25,439
12	Uzbekistan	8,672
13	Costa Rica	8,100
14	Kenya	5,820
15	Peru	3,228
16	Ecuador	2,760
<b>Total</b>		<b>2,690,508</b>

Note: The data, sourced from Tranalysis, were updated to 7 Jan., 2022.

Source: Tranalysis

**TABLE 9:** Major export destinations of lambda-cyhalothrin TC from China in Q3 2021

No.	Destination	Volume, kg
1	The US	284,036
2	India	123,000
3	Pakistan	49,100
4	Brazil	35,850
5	Vietnam	18,700
6	Paraguay	10,000
7	Indonesia	5,200
8	Turkey	4,250
9	The Philippines	4,000
10	Bangladesh	1,550
<b>Total</b>		<b>535,686</b>

*Note: The data, sourced from Tranalysis, were updated to 7 Jan., 2022.*

*Source: Tranalysis*



**TABLE 10:** Export volume of lambda-cyhalothrin formulations from China by exporter, Q3 2021

No.	Exporter	Volume, kg
1	Firmsea Industrial Company Limited	1,167,348
2	Jiangsu Trustchem Co., Ltd.	259,724
3	Nanjing Peters Farm Bio-technology Co., Ltd.	183,512
4	JAT Offshore S.A.L.	170,456
5	Nanjing Ecofarm Biotechnology Co., Ltd.	117,600
6	Wynca (Hong Kong) Limited	92,308
7	Jade Stone FZCO	88,801
8	Agrohao (Hong Kong) Co., Ltd.	60,060
9	Neptune International Limited	50,640
10	Beijing Golden State Science And Technology Development Company Limited	46,590
11	Others	453,469
<b>Total</b>		<b>2,690,508</b>

*Note: The data, sourced from Tranalysis, were updated to 7 Jan., 2022.*

*Source: Tranalysis*



**TABLE 11:** Export volume of lambda-cyhalothrin TC from China by exporter, Q3 2021

No.	Exporter	Volume, kg
1	Youth Chemical Co., Ltd.	174,138
2	Guangzhou Liwei Chemical Technology Co., Ltd.	61,000
3	Adama Makhteshim Ltd.	60,479
4	Wenzhou Fanke Technology Co., Ltd.	32,000
5	Jiangsu Huangma Agrochemicals Co., Ltd.	28,300
6	Jiangsu Changlong Agrochemical Co., Ltd.	18,000
7	Zhejiang Hengdian Import and Export Co., Ltd.	18,000
8	Jiangsu Howo Biological Technology Co., Ltd.	17,800
9	At Agro Co., Ltd.	10,000
10	Nanjing Bangnong Chemical Co., Ltd.	8,000
11	Others	107,969
<b>Total</b>		<b>535,686</b>

Note: The data, sourced from Tranalysis, were updated to 7 Jan., 2022.

Source: Tranalysis



## News in Brief

**China approves use of fenthion ME**

In Dec. 2021, the Department of Agrochemical Management of the Ministry of Agriculture and Rural Affairs of the People's Republic of China unveiled the 33<sup>rd</sup> batch of approved pesticide products (non-new pesticides), including the 50% fenthion ME of Anhui Luye Agrochemical Co., Ltd. (Anhui Luye), which is the first fenthion ME product as well as the first fenthion product for the prevention and control of thrips being approved in China. Previously, registered formulations of fenthion in China were TC, EC, GR and EW.

Fenthion, an organophosphorus nerve agent, can inhibit the enzyme acetylcholinesterase and cause death in pests. Application:

- Fenthion ME can be applied to *Allium fistulosum* to guard against thrips. It is applied one time in each crop rotation with a safety interval of seven days;
- Fenthion EC can be applied to wheat, soybean and cruciferous vegetables (including *Brassica oleracea*) for the prevention and control of wheat blossom midge, soybean pod borer, aphid and etc.;
- Fenthion GR and some EC and EW products can be used to control larvae of mosquitoes and flies outdoors.

**Forecast of occurrence trend of major pests & diseases in 2022**

On 30 Dec., 2021, the Division of Pest Forecasting, National Agro-Tech Extension and Service Centre briefed occurrence trend of major pests & diseases on grain crops in 2022 at the Online Crop Protection Activity of the 37<sup>th</sup> China Plant Protection Information Exchange & Pesticides Sprayer Facilities Fair. Based on monitoring data from the China Crop Pest Forecasting Network and analyses from experts, it is expected that crops like wheat, rice, corn and potato would be severely afflicted by major pests & diseases in 2022; area affected would total 134 million ha, registering an increase of 13.7% and 10.1% compared with that in 2021 and the average in 2016–2020, respectively. Over 70% of grain production areas would be under the threat of major pests & diseases.

Priority should be given to the prevention and control of major pests & diseases on four grain crops, and detailed information is as follows:

- Wheat: wheat head blight, stripe rust, wheat sheath blight and aphid;
- Rice: rice planthopper, rice leaf roller, rice stem borer, rice sheath blight and rice blast;
- Corn: *Spodoptera frugiperda*, armyworm, corn borer and southern corn rust;
- Potato: late blight and *Loxostege sticticatis*.

**MARA issues Development Plan of Agricultural Technology for 14th Five-Year Period**

On 6 Jan., the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) issued *the Development Plan of the Agricultural Technology During the 14<sup>th</sup> Five-Year Plan Period (2021–2025)* (the Plan).

During the 13<sup>th</sup> Five-Year Plan Period (2016–2020), agricultural technology developed significantly.

To date:

- The contribution rate of agricultural technology progress to gross output value of agriculture exceeded 61%;
- The comprehensive mechanisation rate in ploughing, sowing and harvesting surpassed 71%;
- The coverage rate of superior seed varieties stabilised at 96%+;
- China ensured an annual grain output of over 650 billion kilograms and narrowed the gap with developed countries in the overall





R&D level of agricultural technology.

According to the Plan, by 2025:

- The contribution rate of agricultural technology progress to gross output value of agriculture is expected to reach 64%;
- The coverage rate of superior seed varieties of major crops would stand at 96%;
- The mechanisation rate in ploughing, sowing and harvesting of agricultural products would reach 75%, and that of livestock breeding and in aquaculture would raise to 50%;
- The utilisation rate of pesticide and chemical fertiliser in the three main grain crops is expected to reach 43%;
- The comprehensive utilisation rate of animal waste and straw is projected to reach 80% and 86%, respectively;
- Intensified efforts should be made to increase the recycling rate of agricultural film to 85% and escalate the conversion rate in major agricultural product processing to 80%.

### **Zhengbang Crop joins hands with Chengdu Wintrue**

To enhance bilateral collaboration in areas like agricultural industrial services and foreign business, Zhengbang Crop Protection Co., Ltd. (Zhengbang Crop) and Chengdu Wintrue Holdings Co., Ltd. (Chengdu Wintrue) jointly signed a strategic cooperation agreement in late Dec. 2021.

According to the agreement, measures will be adopted by both companies to:

- carry out across-the-board cooperation in technological innovation and industrial development, and establish a regular exchange and cooperation mechanism;
- make good use of their own advantages, spur resources sharing and together promote high-quality development of modern agriculture.

Zhengbang Crop boasts six state-designated pesticide production enterprises, 824 pesticide registration certificates and 68 invention patents. With strong R&D capability, the company was labelled as "High-Tech Enterprise" multiple times, and has been honoured with awards like "Chinese farmers' favourite pesticide brand" and the "Top 10 pesticide brand (in China)".

### **IMAR's plan of constructing high-standard farmland**

On 5 Jan., the Department of Agriculture and Animal Husbandry of the Inner Mongolia Autonomous Region announced that to date, newly constructed high-standard farmland in the Inner Mongolia Autonomous Region (IMAR) stood at 306,700 ha, bringing its total high-standard farmland to 3.05 million ha. Thanks to that, the IMAR can ensure a total grain output of over 21.5 million tonnes in high-standard farmland and lay a solid foundation for reaping a bumper harvest in 2022. Moreover, as part of efforts to better ensure food security in China, by 2025 and 2030, high-standard farmland in the IMAR is expected to reach 3.65 million ha and 4 million ha, respectively.

### **Hebei unveils third batch of chemical parks to be approved**

On 14 Jan., the Industry and Information Technology Department of Hebei Province unveiled the third batch of chemical parks to be approved; altogether nine chemical industry concentration zone were in the list, all of which were examined by city- and province-level governments and an expert panel in accordance with the *Construction Standards of Chemical Parks, and Measures for Accreditation and Management of Chemical Parks (for Trial Implementation)*. The publicity period ended on 20 Jan.



Previously, 13 chemical parks in two batches were approved by the Hebei Provincial Government, including three specialised chemical parks and ten industry concentration zones.

**TABLE 12:** Third batch of chemical parks to be approved in Hebei Province

No.	Chemical park
1	Zhao County Biological Industrial Park
2	Chemical Industrial Zone of Hebei Xinle Economic Development Zone
3	Chemical Industry Concentration Zone of Tangshan Nanpu Economic Development Zone
4	Chemical Industrial Park of Hebei Leting Economic Development Zone
5	Chemical Industrial Park of Hebei Fengnan Economic Development Zone
6	Chemical Industrial Park of Hebei Luanzhou Economic Development Zone
7	Chemical Industrial Park of Hebei Haixing Economic Development Zone
8	Chemical Industry Concentration Zone of Hebei-Tianjin Circular Economy Industrial Demonstration Zone
9	New Material Industrial Park of Hebei Dingzhou Economic Development Zone

Source: The Industry and Information Technology Department of Hebei Province

### CPCIF unveils List of Green and Low-Carbon Production Technique in Petrochemical Industry

On 21 Jan., the *List of Green and Low-Carbon Production Technique in the Petrochemical Industry* (2021 Edition) was unveiled by the China Petroleum and Chemical Industry Federation (CPCIF) in Beijing, and the *List of Green Production Technique in the Petrochemical Industry* (2020 Edition) was abolished simultaneously. The 2021 Edition contains 39 items in total, marking an increase of nine items and ten production techniques over the 2020 Edition.

The ten newly added green and low-carbon production techniques, covering fields of fine chemical, organic chemical biochemical and etc., include:

- Technique for the Simultaneous Separation of Aluminum and Vanadium in Chromium Salt Production;
- Technique for the Ion-Exchange Resin Catalysis and Impurity Removal in PTMEG Production;
- The Pressurised Gas-Phase Method for the Production of Melamine;
- Technique for the Co-production of Dimethyl Carbonate and Ethylene Glycol via Alcoholysis of Ethylene Carbonate;
- Technique for the Production of Sulfuric Acid and Cement Through Industrial By-Product Gypsum;
- Technique for the Production New Micro-nano, Hyper-dispersed and Low-zinc Rubber Vulcanization Active Agent;
- Technique for the Recovery of Organic Solvent Through Liquid Nitrogen;
- Technique for the Production of Glycine via Mixed-Solvent Method;
- Technique for the Production of (3-Chloropropyl) trialkoxysilanes and Dry Recycling & Utilisation of Its By-



Product—Hydrogen Chloride;

- Technique for the Production of Potassium Nitrate via Closed Recycling of Waste Water Through Ion Exchange.

### **MARA reports 10 batches of samples found with excessive pesticide residue in 2021 random inspections**

From May to Nov. in 2021, the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) launched national agricultural product quality & safety supervision and random inspection. A total of 2,857 batches of sampled crops, animal products and aquatic products were tested, 24 of which had problems such as excessive pesticide residue in vegetables, and illegal and unauthorised use of drugs and compounds in food animals, according to the report disclosed by the MARA on 6 Jan.

In the inspections, four batches of samples were spotted greater residue of chlorpyrifos, which failed to meet the National Food Safety Standard and relevant regulations. Being a broad-spectrum organophosphorus insecticide, chlorpyrifos can be applied on soybean, corn, peanut and etc. The pesticide residue of chlorpyrifos should not exceed 0.05 mg/kg in celery and 0.02 mg/kg in pepper and cowpea, respectively, according to the *National Food Safety Standard—Maximum Residue Limits of Pesticides in Food* (GB 2763-2021).

### **Jiangsu Yangnong wins prizes in 2021 Sinochem Science and Technology Award**

On 10 Jan., results of the 2021 Sinochem Science and Technology Award were unveiled: four awards of technological invention, 25 awards of scientific and technological progress and 24 awards for patent. Among the recipients, Jiangsu Yangnong Chemical Co., Ltd. (Jiangsu Yangnong) was honoured with the award of scientific and technological progress (second grade), and its wholly-owned subsidiary Shenyang Sinochem Agrochemicals R&D Co., Ltd. (Shenyang Sinochem) crowned with the gold award for patent.

The patent snatched the top grade award deals with the critical production technology of acaricide cyetpyrafen, a compound independently developed by Shenyang Sinochem. Cyetpyrafen hit the global acaricide market in April 2017 and has injected new energy into the market ever since.

Jiangsu Yangnong, the second-grade award-winner with the program—R&D on Core Technology for Clean Production and Application of Pyrethroid Insecticides for Hygienic Uses, has achieved whole-process clean production of pyrethroids. It sets a good example and will help advance the transformation, energy-saving, clean- and safe-development of the pesticide industry.

### **MARA issues Guideline for Safety Evaluation of Gene-Edited Plants for Agricultural Use (for Trial Implementation)**

On 24 Jan., in pursuit of regulating safety evaluation of gene-edited plants for agricultural use, the Department of Science, Technology and Education of the Ministry of Agricultural and Rural Affairs of the People's Republic of China (MARA) published the *Guideline for Safety Evaluation of Gene-Edited Plants for Agricultural Use (for Trial Implementation)*. The Guideline is formulated based on the *Regulation on Administration of Safety of Agricultural Genetically Modified Organisms* and the *Measures for the Administration of the Safety Evaluation of Agricultural Genetically Modified Organisms*. The Guideline focuses on the gene-edited plants without introducing exogenous genes. Safety evaluations to be reported should be carried out based on their potential risks. It effectively fights against the situation of "Forging ahead in research, lagging behind in management and caring nothing about application" in China's gene-editing field. What's more, some industry insiders believe that issuance of the Guideline signals China is one step closer to commercialisation of





transgenic technology.



Price Update

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

TABLE 13: Ex-works prices of major insecticides in China, 8 Jan., 2022

Product	20211208		20220108	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	760,000	119,322.37	710,000	111,295.73
97% Acephate technical	64,000	10,048.2	64,000	10,032.29
95% Acetamiprid technical	220,000	34,540.69	210,000	32,918.46
95% Azocyclotin technical	215,000	33,755.67	215,000	33,702.23
95% Beta-Cypermethrin technical	185,000	29,045.58	185,000	28,999.59
97% Bifenthrin technical	370,000	58,091.16	355,000	55,647.87
95% Buprofezin technical	77,000	12,089.24	75,200	11,787.94
98% Carbofuran technical	115,000	18,055.36	115,000	18,026.77
98% Chlorfenapyr technical	380,000	59,661.19	356,000	55,804.62
95% Chlorfluazuron technical	570,000	89,491.78	570,000	89,350.1
95% Chlorpyrifos technical	54,000	8,478.17	49,000	7,680.97
94% Cypermethrin technical	96,000	15,072.3	92,000	14,421.42
99% Cyromazine technical	160,000	25,120.5	160,000	25,080.73
98% Deltamethrin technical	600,000	94,201.87	590,000	92,485.19
95% Diafenthiuron technical	163,000	25,591.51	153,000	23,983.45
98% Dimethoate technical	49,000	7,693.15	49,000	7,680.97
70% Emamectin benzoate technical	888,000	139,418.77	812,000	127,284.7
92% Fenvalerate technical	137,000	21,509.43	137,000	21,475.37
95% Fipronil technical	650,000	102,052.03	650,000	101,890.46
98% Hexaflumuron technical	540,000	84,781.69	540,000	84,647.46



97% Imidacloprid technical	220,000	34,540.69	210,000	32,918.46
98% Isoprocarb technical	46,000	7,222.14	43,500	6,818.82
95% Lambda-cyhalothrin technical	250,000	39,250.78	248,000	38,875.13
90% Malathion technical	31,500	4,945.6	31,500	4,937.77
95% Methidathion technical	90,000	14,130.28	90,000	14,107.91
Methomyl 90% SP	85,000	13,345.27	85,000	13,324.14
98% Methomyl technical	93,000	14,601.29	93,000	14,578.17
75% Omethoate technical	53,500	8,399.67	53,500	8,386.37
90% Phoxim technical	48,000	7,536.15	45,000	7,053.95
90% Profenofos technical	87,000	13,659.27	87,000	13,637.65
90% Propargite technical	56,000	8,792.17	57,000	8,935.01
95% Pymetrozine technical	185,000	29,045.58	170,000	26,648.27
95% Pyridaben technical	115,000	18,055.36	110,000	17,243
97% Spirodiclofen technical	185,000	29,045.58	183,000	28,686.08
85% Triazophos technical	58,500	9,184.68	58,500	9,170.14

Note: Ex-works price includes VAT.

Source: CCM

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







TABLE 14: Shanghai Port prices of major insecticides in China, 8 Jan., 2022

Product	20211208		20220108	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	760,500	119,400.88	710,500	111,374.11
97% Acephate technical	64,500	10,126.7	64,500	10,110.67
95% Acetamiprid technical	220,500	34,619.19	210,500	32,996.83
95% Azocyclotin technical	215,500	33,834.17	215,500	33,780.61
95% Beta-Cypermethrin technical	185,500	29,124.08	185,500	29,077.97
97% Bifenthrin technical	370,500	58,169.66	355,500	55,726.24
95% Buprofezin technical	77,500	12,167.74	75,700	11,866.32
98% Carbofuran technical	115,500	18,133.86	115,500	18,105.15
98% Chlorfenapyr technical	380,500	59,739.69	356,500	55,883
95% Chlorfluazuron technical	570,500	89,570.28	570,500	89,428.47
95% Chlorpyrifos technical	54,500	8,556.67	49,500	7,759.35
94% Cypermethrin technical	96,500	15,150.8	92,500	14,499.8
99% Cyromazine technical	160,500	25,199	160,500	25,159.11
98% Deltamethrin technical	600,500	94,280.38	590,500	92,563.56
95% Diafenthiuron technical	163,500	25,670.01	153,500	24,061.82
98% Dimethoate technical	49,500	7,771.65	49,500	7,759.35
70% Emamectin benzoate technical	888,500	139,497.28	812,500	127,363.07
92% Fenvalerate technical	137,500	21,587.93	137,500	21,553.75
95% Fipronil technical	650,500	102,130.53	650,500	101,968.84
98% Hexaflumuron technical	540,500	84,860.19	540,500	84,725.84
97% Imidacloprid technical	220,500	34,619.19	210,500	32,996.83
98% Isoprocarb technical	46,500	7,300.65	44,000	6,897.2





95% Lambda-cyhalothrin technical	250,500	39,329.28	248,500	38,953.51
90% Malathion technical	32,000	5,024.1	32,000	5,016.15
95% Methidathion technical	90,500	14,208.78	90,500	14,186.29
Methomyl 90% SP	85,500	13,423.77	85,500	13,402.51
98% Methomyl technical	93,500	14,679.79	93,500	14,656.55
75% Omethoate technical	54,000	8,478.17	54,000	8,464.75
90% Phoxim technical	48,500	7,614.65	45,500	7,132.33
90% Profenofos technical	87,500	13,737.77	87,500	13,716.02
90% Propargite technical	56,500	8,870.68	57,500	9,013.39
95% Pymetrozine technical	185,500	29,124.08	170,500	26,726.65
95% Pyridaben technical	115,500	18,133.86	110,500	17,321.38
97% Spirodiclofen technical	185,500	29,124.08	183,500	28,764.46
85% Triazophos technical	59,000	9,263.18	59,000	9,248.52

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 Jan., 2022





TABLE 15: FOB Shanghai prices of major insecticides in China, 8 Jan., 2022, USD/t

Product	20211208	20220108
95% Abamectin technical	116,204.7	108,398.71
97% Acephate technical	9,592.17	9,576.98
95% Acetamiprid technical	33,756.45	32,178.6
95% Azocyclotin technical	32,993.04	32,940.8
95% Beta-Cypermethrin technical	27,412.72	27,369.32
97% Bifenthrin technical	54,659.01	52,366.81
95% Buprofezin technical	11,922.93	11,629.66
98% Carbofuran technical	17,724.85	17,696.78
98% Chlorfenapyr technical	58,185.56	54,434.87
95% Chlorfluazuron technical	87,195.13	87,057.08
95% Chlorpyrifos technical	8,411.25	7,635.73
94% Cypermethrin technical	14,305.04	13,694.22
99% Cyromazine technical	23,730.79	23,693.21
98% Deltamethrin technical	88,532.78	86,922.18
95% Diafenthiuron technical	24,172.62	22,663.91
98% Dimethoate technical	7,383.01	7,371.32
70% Emamectin benzoate technical	135,747.98	123,947.61
92% Fenvalerate technical	20,343.41	20,311.2
95% Fipronil technical	99,409.68	99,252.3
98% Hexaflumuron technical	82,614.67	82,483.87
97% Imidacloprid technical	33,756.45	32,178.6
98% Isoprocarb technical	6,941.18	6,562.58
95% Lambda-cyhalothrin technical	36,985.74	36,633.1





Product	20211208	20220108
90% Malathion technical	4,805.66	4,798.05
95% Methidathion technical	13,907.8	13,885.78
Methomyl 90% SP	13,144.39	13,123.58
98% Methomyl technical	15,643.79	15,619.02
75% Omethoate technical	8,045.76	8,033.02
90% Phoxim technical	7,447.81	6,981.65
90% Profenofos technical	12,979.55	12,959
90% Propargite technical	8,716.61	8,855.25
95% Pymetrozine technical	27,412.72	25,163.66
95% Pyridaben technical	17,724.85	16,934.58
97% Spirodiclofen technical	27,412.72	27,075.23
85% Triazophos technical	9,098.32	9,083.91

*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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