Insecticides China Monthly Report 202210

Issue 10 October 31 2022





Contents

Headline	1
Editor's Note	3
Company Dynamics	4
Qilu Synva expanding 2kt/a emamectin benzoate TC capacity	4
Wuzhong Linghang's 2kt/a imidacloprid TC line passes completion acceptance check	4
Brief update on some chlorantraniliprole TC projects in China	5
Market Analysis	9
Imidacloprid & acetamiprid production in Shandong Hailir may resume in early Nov	9
Prices of most insecticides TC drop in late Oct.	10
Pest	13
NATESC: prioritise control over wheat aphids & wheat mites in 2022–23 wheat growing	13
Policy	14
Many cities roll out action plans for prevention & control of air pollution in autumn & winter	14
Import and Export	15
China's lambda-cyhalothrin TC export to the US grows in JanAug. 2022	15
Registration	19
ICAMA releases 38 newly-registered insecticides in Oct.	19
Registration of chlorantraniliprole products surges in China	22
News in Brief	25
Shandong Youdao makes provisional acceptance of chlorantraniliprole TC and intermediate production lines	25
Cangzhou Xingbai to build capacity of insecticide TC & formulations	25
Hebei Lanrun's TC & adjuvant production line transformation project to be re-assessed	25
Jiangsu Yangnong projects net profit growth in Q1–Q3 2022	25
El report of Jiangsu Gongcheng's 18.5kt/a hygienic insecticides project accepted	26
Jiangsu Changqing to complete 12kt/a pesticides relocation project by the end of 2024	26
Chongqing accredits seven chemical parks	27
Jiangsu issues Implementation Plan for Carbon Peaking	27
Hebei Nongxin to launch two chlorantraniliprole formulations in Nov	28
Insecticide price index follows downtrend in Q1–Q3 2022	28
Price Update	29
Ex-works prices of major insecticides in China on 8 Oct. 2022	29
Shanghai Port prices of major insecticides in China, 8 Oct. 2022	30
FOB Shanghai prices of major insecticides in China, 8 Oct. 2022	32



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Headline

Qilu Synva's emamectin benzoate TC capacity expansion project is progressing well. Once the lines successfully put into operation, the

company will increase its emamectin benzoate TC capacity by 2,000 t/a.

Wuzhong Linghang has completed the construction of 2,000 t/a imidacloprid TC production line, and has the line passed acceptance

check recently. China's imidacloprid TC market welcomes a new supplier.

The compound chlorantraniliprole went off-patent in China on 13 Aug., 2022. So far, some Chinese pesticide producers have planned

chlorantraniliprole TC capacity. Among them, Guang'an Lier publicised in late Sept. the EI report involving a set of chlorantraniliprole TC

pilot-test equipment, Shandong Youdao finished provisional acceptance of the chlorantraniliprole TC equipment also in late Sept., and

Chongqing Huage is currently preparing for early-stage procedures for its chlorantraniliprole TC project.

In early Oct., the ex-work prices of imidacloprid TC and acetamiprid TC were basically stable under weak sales, seeing less than 1%

fluctuation. It is worth noting that the supply of these two products would increase soon as Shandong Hailir may resume operation of

imidacloprid and acetamiprid production lines in early Nov.

In late Oct., prices of most insecticides TC dropped mainly due to sluggish demand. Some organophosphorus insecticides TC and

pyrethroid insecticides TC had stable prices.

On 12 Oct., NATESC released the Technical Programme for the Prevention and Control of Major Wheat Pests and Diseases during the

Whole 2022–23 Growth Period. The Programme specifies the main prevention and control targets and simultaneous control targets in

specific wheat growing regions, and proposes green prevention and control measures to be taken during the whole growth period.

According to incomplete statistics, as of 9 Oct., local governments of 16 cities in 13 provinces such as Shanxi, Henan, Hunan, Guangxi,

Guangdong had issued hundred-day action plans for prevention & control of air pollution in 2022. Some cities have required strict control

of energy-intensive and large-emission projects.

In Jan.-Aug. 2022, lambda-cyhalothrin products from China were mainly exported to the US, Belgium, India, etc. The total export volume

(actual volume) went down by 58.12% YoY, but export volume of TC products increased. And the US was the largest export destination of

China's lambda-cyhalothrin TC; its share to the total lambda-cyhalothrin TC export was 50.79% in this period, up 1.69 percentage points

YoY.

In Oct. 2022, ICAMA approved 38 newly-registered insecticide products, including three hygienic insecticide products.

In Oct., FLAGCHEM, Lier Chemical and Shandong Youdao obtained pesticide registration certificates for chlorantraniliprole TC. As of

mid-Oct., ICAMA had so far approved registration of 19 chlorantraniliprole products (registration renewals included) in 2022, and more

than half of the approved chlorantraniliprole TC products were first registered in 2022. The registration boom is encouraged by large

market potential as well as the fact that the compound went off-patent in China from 13 Aug., 2022.

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1







Editor's Note

In Oct. 2022, ICAMA approved 38 newly-registered insecticide products, including three hygienic insecticide products. Among them, three are chlorantraniliprole TC, registered by FLAGCHEM, Lier Chemical and Shandong Youdao respectively.

The compound chlorantraniliprole went off-patent in China on 13 Aug., 2022. So far, some Chinese pesticide producers have planned chlorantraniliprole TC capacity. Among them, Guang'an Lier publicised in late Sept. the EI report involving a set of chlorantraniliprole TC pilot-test equipment, Shandong Youdao finished provisional acceptance of the chlorantraniliprole TC equipment also in late Sept., and Chongqing Huage is currently preparing for early-stage procedures for its chlorantraniliprole TC project. Besides, Hebei Nongxin would launch two chlorantraniliprole formulation products in Nov.—Nongxin Tengge®, a mixed formulation chlorantraniliprole-indoxacarb 25% SC, and Nongxin Zhanshen®, a single formulation chlorantraniliprole 30% SC.

In terms of insecticides market dynamics:

- In early Oct., the ex-work prices of imidacloprid TC and acetamiprid TC were basically stable under weak sales. It is worth noting that the supply of these two products would increase soon as Shandong Hailir may resume operation in early Nov. and Wuzhong Linghang may start imidacloprid TC production in the near future.
- In late Oct., prices of most insecticides TC dropped, while some organophosphorus insecticides TC and pyrethroid insecticides TC had stable prices. Some nicotinoid insecticides TC saw their prices set lower mainly due to slow sales.

The USD/CNY exchange rate in this newsletter is USD1.00 = CNY7.0992 on 10 Oct., 2022, sourced from the People's Bank of China. All the prices mentioned in this newsletter will include the VAT, unless otherwise specified.

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Company Dynamics

Qilu Synva expanding 2kt/a emamectin benzoate TC capacity

Summary: Qilu Synva's emamectin benzoate TC capacity expansion project is progressing well. Once the lines successfully put into

operation, the company will increase its emamectin benzoate TC capacity by 2,000 t/a.

In early Oct., CCM learned from Qilu Synva Pharmaceutical Co., Ltd. (Qilu Synva) that its 2,000 t/a emamectin benzoate TC capacity

expansion and upgrading project had been progressing well. So far the construction of production lines and support facilities has been

close to completion, and some 70% of equipment brought from around the world has been delivered to the company. The equipment will

soon be installed.

Emamectin benzoate is a high-efficacy, low-toxicity and low-residue insecticide widely used in the control of pests on vegetables, fruit

trees, cotton, corn and other crops. In particular, it is well recognised as an effective product to control fall armyworm, which started to

emerge as a major agricultural pest in China in 2019. In fact, emamectin benzoate is one of the popular insecticides used in China, as well

as one of the major insecticides exported from China. Besides the usage as an insecticide, it can also be used as a veterinary drug

(including as an aquaculture drug).

Many Chinese pesticide producers have by now brought into operation their large-scale emamectin benzoate TC production lines, these

manufacturers including Ningxia Taiyicin Biotech Co., Ltd., Inner Mongolia New Veyong Bio-chemical Co., Ltd., Inner Mongolia Jumbo

Biochemistry Co., Ltd., Synwill (Nantong) Chemical Co., Ltd., Qingdao KYX Chemical Co., Ltd., Syngenta Nantong Crop Protection Co.,

Ltd., Jingmen Jinxianda Biotechnology Co., Ltd. and Jingbo Agrochemicals Technology Co., Ltd.

Emamectin benzoate TC is Qilu Synva's flagship product, with 100 t/a production capacity already built up. Qilu Synva, a wholly-owned

subsidiary of Qilu Pharmaceutical Co., Ltd. (Qilu Pharmaceutical), is located in the Economic Development Zone, Linyi County, Dezhou

City, Shandong Province. It is mainly engaged in R&D, production and sale of pesticides and veterinary drugs. It has obtained pesticide

production licence and holds a pesticide registration certificate for 95% emamectin benzoate technical (No. PD20130463).

Its parent company Qilu Pharmaceutical, in order to further develop its pesticide business, acquired 100% equity of Anhui Huaxing

Chemical Industry Co., Ltd. (Anhui Huaxing) in March 2022 through another wholly-owned subsidiary Qilu Pharmaceutical (Inner

Mongolia) Co., Ltd., and thus Qilu Pharmaceutical now indirectly holds Anhui Huaxing's large-scale pesticide production capacity in

Wujiang Fine Chemical Base, Ma'anshan City, Anhui Province. In terms of insecticide production capacity, Anhui Huaxing has lines of

6,000 t/a monosultap TC, 2,000 t/a cartap TC, 300 t/a imidacloprid TC, 200 t/a of fipronil TC, etc.

Wuzhong Linghang's 2kt/a imidacloprid TC line passes completion acceptance check

Summary: Wuzhong Linghang has completed the construction of 2,000 t/a imidacloprid TC production line, and has the line passed

acceptance check recently. China's imidacloprid TC market welcomes a new supplier.

In Oct. 2022, CCM learned from Wuzhong Linghang Biological & Pharmaceutical Co., Ltd. (Wuzhong Linghang) that its 2,000 t/a

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4



imidacloprid TC production line had passed completion acceptance check. As a part of Wuzhong Linghang's 21,000 t/a of pesticides technical and pesticide formulations project, the imidacloprid line started construction in April 2021 and came into trial production in July 2021. The large-scale project has been much supported by its parent company Suzhou Bianjing Biotechnology Co., Ltd. (Suzhou Bianjing).

Wuzhong Linghang was established on 12 March, 2019 in Qingtongxia Industrial Park, Wuzhong City, Ningxia Hui Autonomous Region. In addition to the newly unleashed imidacloprid TC capacity, the company has active production capacity of 1,000 t/a of acetamiprid TC and 1,000 t/a nitenpyram TC. Besides, it has some pesticide lines under construction or about to going into construction.

Wuzhong Linghang has obtained the production permit for imidacloprid TC, acetamiprid TC and nitenpyram TC. Its pesticide registration certificates for these technical products are acquired through transfers from Suzhou Bianjing.

TABLE 1: Wuzhong Linghang's insecticides TC registration, as of 9 Oct., 2022

No.	Active ingredient	Content	Expiry date
1	Nitenpyram	97%	2026/9/13
2	Acetamiprid	99%	2026/3/18
3	Thiamethoxam	98%	2025/10/22
4	Imidacloprid	98.50%	2023/4/17

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

It is a concern that in recent years, cases of enterprises and individuals with no production permit producing pesticide products illegally emerged in China from time to time. Such acts not only violate the *Regulation on Pesticide Administration*, but also seriously impact normal business order in the industry. It has not been rare to see illegal production of imidacloprid TC and acetamiprid TC in recent years, as they are mainstream insecticides. In response to these phenomena, the China Crop Protection Industry Association has repeatedly issued Stern Warning to Enterprises Involving in Illegally Production of Imidacloprid TC & Acetamiprid TC, requesting relevant enterprises to stop illegal production and sale, and warning of reporting to relevant government regulatory bodies.

There are several qualified imidacloprid TC producers with big production capacity in China. Although the total designed imidacloprid TC capacity is relatively large, the actual output may be impacted by many factors such as environmental protection, production safety, upstream raw material supply and individual company's own conditions. As for Wuzhong Linghang, whether it can maintain stable operation of its imidacloprid line for long is uncertain yet.

Brief update on some chlorantraniliprole TC projects in China

Summary: The compound chlorantraniliprole went off-patent in China on 13 Aug., 2022. So far, some Chinese pesticide producers have





planned chlorantraniliprole TC capacity. Among them, Guang'an Lier publicised in late Sept. the EI report involving a set of chlorantraniliprole TC pilot-test equipment, Shandong Youdao finished provisional acceptance of the chlorantraniliprole TC equipment also in late Sept., and Chongqing Huage is currently preparing for early-stage procedures for its chlorantraniliprole TC project.

Recently, Best Agrolife Limited, the first Indian agrochemical company to produce chlorantraniliprole TC by itself, launched two new chlorantraniliprole formulation products: CITIGEN & VISTARA. In China, patent for the compound chlorantraniliprole expired on 13 Aug., 2022. So far, many Chinese producers have disclosed plans to build chlorantraniliprole TC capacity, such as Shandong Eshung Industrial Co., Ltd., Jingzhou Sancaitang Chemical Technology Co., Ltd., Guang'an Lier Chemical Co., Ltd. (Guang'an Lier), Anhui Huilong RMF Bioengineering Co., Ltd., Chongqing Huage Biochemical Co., Ltd. (Chongqing Huage) and Shandong Youdao Chemical Co., Ltd. (Shandong Youdao).

In mid-Sept., Chongqing Huage's parent company Nanjing Red Sun Co., Ltd. revealed that preparation for early-stage procedures for a 2,000 t/a chlorantraniliprole TC project had kicked off. And by the end of Sept., Guang'an Lier had publicised before submitting for government approval the environmental impact (EI) report of the pesticide TC pilot test and supporting facilities construction project, which involves a set of chlorantraniliprole TC pilot-test equipment, and Shandong Youdao had finished provisional acceptance of the production lines for chlorantraniliprole TC and intermediates. In early Oct., Shandong Youdao obtained a pesticide registration certificate for 98% chlorantraniliprole TC and the production permit for chlorantraniliprole; it also expected that commissioning test run would be possible this month, which brings the company an opportunity to first break foreign companies' monopoly on the TC product in the Chinese market.

 TABLE 2: Chlorantraniliprole TC capacity planned by some domestic producers, as of mid-Oct. 2022

No.	Producer	Planned capacity of chlorantraniliprole TC, t/a
1	Shandong Eshung Industrial Co., Ltd.	10,000
2	Jingzhou Sancaitang Chemical Technology Co., Ltd.	5,000
3	Guang'an Lier Chemical Co., Ltd.	5,000
4	Anhui Huilong RMF Bioengineering Co., Ltd.	2,000
5	Chongqing Huage Biochemical Co., Ltd.	2,000
6	Shandong Youdao Chemical Co., Ltd.	1,000
7	Hebei Di'annong Biotechnology Co., Ltd.	1,000
8	Liaoning Longtian Chemical Technology Co., Ltd.	1,000
9	Gansu Zhongmaotou Chemical Co., Ltd.	1,000
10	Hubei Jinzhu Biological Agriculture Co. Ltd.	800
11	Jiangxi Huihe Chemical Co., Ltd.	600
12	Inner Mongolia BIOK Biology Co., Ltd.	400

Source:CCM

In terms of chlorantraniliprole TC registration, nine producers had obtained the registration certificate in China as of 18 Oct., 2022. Among them, five domestic enterprises obtained registration this year.



TABLE 3: Chlorantraniliprole TC registration in China, as of 18 Oct., 2022

No.	Content	Expiry date	Registrant	Year of first approval
1	98%	2027/10/8	Shandong Youdao Chemical Co., Ltd.	2022
2	96.50%	2027/10/8	Lier Chemical Co., Ltd.	2022
3	95%	2027/10/8	Jiangsu Flag Chemical Industry Co., Ltd.	2022
4	97%	2027/4/23	Synwill (Nantong) Chemical Co., Ltd.	2022
5	95.30%	2027/3/24	Xiangshui Zhongshan Bioscience Co., Ltd.	2022
6	98%	2023/4/17	Shandong Weifang Rainbow Chemical Co., Ltd.	2018
7	95.30%	2027/10/17	Inner Mongolia Miraculous Crop Science Co., Ltd.	2017
8	95.30%	2025/9/21	FMC (Shanghai) Agricultural Sciences Co., Ltd.	2010
9	95.30%	2025/1/15	FMC Corporation	2010

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

Once chlorantraniliprole TC is produced domestically, its price is expected to decrease, which will boost the development of chlorantraniliprole formulations. As domestic companies are scrambling for a share in the market, they should beware of infringement on patented production process.



Market Analysis

Imidacloprid & acetamiprid production in Shandong Hailir may resume in early Nov.

Summary: In early Oct., the ex-work prices of imidacloprid TC and acetamiprid TC were basically stable under weak sales, seeing less than 1% fluctuation. It is worth noting that the supply of these two products would increase soon as Shandong Hailir may resume operation of imidacloprid and acetamiprid production lines in early Nov.

In early Oct., ex-works price of 97% imidacloprid TC in China went down by 0.38% MoM (calculated with RMB price) to USD22,101/t (RMB156,900/t), and it fell by 24.02% YoY; the price of 95% acetamiprid TC stood at USD20,467/t (RMB145,300/t), up 0.55% MoM but down 26.73% YoY. So far into 2022, ex-work prices of these two products followed an overall downtrend, gradually slipping from the peak witnessed in Nov. 2021. It should be noted that the price of 2-chloro-5-chloromethylpyridine (CCMP), an important intermediate for these two products, fell by 4.24% MoM in early Oct.

Domestic demand for imidacloprid TC and acetamiprid TC has been relatively low. Some imidacloprid TC manufacturers mainly fulfil export orders. As to the supply, CCM's monitoring in early Oct. 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): the production lines of imidacloprid TC and acetamiprid TC are expected to resume production in early Nov., but the resumption has not yet been announced officially. The company still has some stock of both products.
- Hebei Yetian Agrochemicals Co., Ltd. (Hebei Yetian): the imidacloprid TC production line runs normally at present. Its product currently is mainly for export, and demand can be met without difficulty.

TABLE 4: Production of imidacloprid TC & acetamiprid TC in some domestic producers, early Oct. 2022

No.	Producer	Product	Capacity, t/a	Remark	
1	Shandong United Pesticide	Imidacloprid TC	2,000	Normal production	
'	· ·	Acetamiprid TC	2,000	Normal production	
2	Hebei Yetian	Imidacloprid TC	5,000	Normal production	
3	Shandong Hailir	Imidacloprid TC	2,500	Suspension for maintenance	
J	Shartong Haili	Acetamiprid TC	1,200		
4	Jiangsu Changlong	Imidacloprid TC	2,000	Suspension for maintenance	

Source:CCM



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

— Price, USD/t — Original price, RMB/t Price, USD/t Original price, RMB/t 40,000 270,000 240,000 35,000 30,000 210,000 25,000 180,000 20,000 150,000 15,000 120,000 10,000 - 90,000 20210701 20210801 20210901 Source: CCM

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



Prices of most insecticides TC drop in late Oct.

Summary: In late Oct., prices of most insecticides TC dropped mainly due to sluggish demand. Some organophosphorus insecticides TC and pyrethroid insecticides TC had stable prices.

In late Oct., prices of most insecticides TC dropped, while some organophosphorus insecticides TC and pyrethroid insecticides TC had



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stable prices. Some nicotinoid insecticides TC saw their prices set lower mainly due to slow sales.

Organophosphorus insecticides: Ex-works prices of phoxim TC and profenofos TC were stable, while the prices of malathion TC and chlorpyrifos TC decreased. Sluggish demand was the main reason for the chlorpyrifos TC price fall. The supply of chlorpyrifos TC was stable, as 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 most pyrethroid TC insecticides were lowered mainly due to slow sales. On a monthly basis, bifenthrin TC price declined by more than 2%, lambda-cyhalothrin TC price went down by 1.50%, and cypermethrin TC price slipped by less than 1%. 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. According to imidacloprid TC supplier Hebei Yetian Agrochemicals Co., Ltd., its imidacloprid products have been mainly for export recently with sufficient stocks. Though prices of some important intermediates rose, such as 3-methyl-4-nitroiminoperhydro-1,3,5-oxadiazine, 2-nitroaminoimidazoline and ethyl N-cyanoethanimideate, which may drive the production cost up, ex-works prices of organophosphorus insecticides TC may just keep stable against sluggish demand in the short term.



 TABLE 5: Ex-works prices of major insecticide TC products in China in late Oct. 2022

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	MoM change
	95% Chlorpyrifos technical	51,400	7,240	-2.10%
Organophophop is inserticide	90% Malathion technical	36,000	5,071	-2.70%
Organophosphorus insecticide	90% Phoxim technical	45,000	6,339	0.00%
	90% Profenofos technical	82,665	11,644	0.00%
	97% Bifenthrin technical	267,000	37,610	-2.20%
Pyrethroid insecticide	95% Lambda-cyhalothrin technical	197,000	27,750	-1.50%
ryieurolu insecticide	94% Cypermethrin technical	83,500	11,762	-0.60%
	98% Deltamethrin technical	530,000	74,656	0.00%
Nicotinoid insecticide	97% Imidacloprid technical	153,100	21,566	-2.79%
INICOLITOIA IIISECLICIAE	95% Acetamiprid technical	142,500	20,073	-2.73%
Antibiotic insecticide	70% Emamectin benzoate technical	537,000	75,642	-4.11%
Annologic insecticide	95% Abamectin technical	560,000	78,882	-3.45%

Note: MoM change is calculated with RMB price.

Source:CCM



Pest

NATESC: prioritise control over wheat aphids & wheat mites in 2022-23 wheat growing

Summary: On 12 Oct., NATESC released the Technical Programme for the Prevention and Control of Major Wheat Pests and Diseases during the Whole 2022–23 Growth Period. The Programme specifies the main prevention and control targets and simultaneous control targets in specific wheat growing regions, and proposes green prevention and control measures to be taken during the whole growth period.

On 12 Oct., China's National Agro-Tech Extension and Service Center (NATESC) released the Technical Programme for the Prevention and Control of Major Wheat Pests and Diseases during the Whole 2022–23 Growth Period. Based upon occurrence and damage features of diseases and pests in wheat planting areas in recent years, the Programme specifies the main prevention and control targets and simultaneous control targets in wheat growing regions.

TABLE 6: Pests in wheat growing regions during 2022–23 wheat growth period

Region	Control target
Huang-Huai-Hai region	Major pests: wheat aphids, wheat mites, wheat blossom midges, underground insects
Middle & lower reaches of the Yangtze River	Major pests: wheat aphids, wheat mites Simultaneous control targets: Laodelphax striatellus, underground insects, etc.
Southwest China	Control targets: wheat mites, underground insects, etc. Potential pests: fall armyworms, etc.
Northwest China	Control targets: wheat aphids, wheat mites, wheat blossom midges, underground insects, etc.
North China & Northeast China	Major pests: wheat aphids, wheat blossom midges Simultaneous control targets: armyworm, wheat mites

Source:NATESC

A key step in green prevention and control during the whole wheat growth period is properly treating the seeds in autumn sowing, which can help prevent and control soil-borne & seed-borne diseases and pests, underground pests, and wheat seedling pests and diseases.

- Regions with heavy occurrence of underground insects: seed dressing with phoxim and imidacloprid, or seed coating with
 imidacloprid is recommended to control pests such as wireworms, grubs, and mole crickets. Such measures can also help control
 pests like wheat aphids and wheat mites in seedling stage.
- Regions with mixed occurrence of a variety of diseases and pests: fungicides and insecticides used for seed coating or seed
 dressing should be selected and mixed based on local occurrence features. Seed coating with mixtures like
 tebuconazole-imidacloprid, difenoconazole-thiamethoxam-fludioxonil, and difenoconazole-thiamethoxam-fenaminstrobin is also a
 choice. When using mixed formulations, dosage of active ingredients should be roughly the same as that in single formulations.
- Where possible, microbial agents (represented by Bacillus subtilis), microbial pesticides (such as Beauveria spp. and Metarhizium spp.), and immune inducers are highly recommended for the control of soil-borne & seed-borne diseases and underground pests, which can improve crop resistance to pests and diseases.

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Policy

Many cities roll out action plans for prevention & control of air pollution in autumn & winter

Summary: According to incomplete statistics, as of 9 Oct., local governments of 16 cities in 13 provinces such as Shanxi, Henan, Hunan,

Guangxi, Guangdong had issued hundred-day action plans for prevention & control of air pollution in 2022. Some cities have required

strict control of energy-intensive and large-emission projects.

According to incomplete statistics, as of 9 Oct., local governments of 16 cities in in 13 provinces such as Shanxi, Henan, Hunan, Guangxi,

Guangdong had issued hundred-day action plans for prevention & control of air pollution in 2022. Some cities in their plans have required

strict control of energy-intensive and large-emission projects, and curbing haphazard development of such projects with out-dated

technologies applied. Issuance of policies in multiple cities in such a short time signals the beginning of restricted production in industrial

sector in autumn-winter period.

On 26 Sept., government of Nanyang City of Henan Province issued the Action Plan for Air Pollution Prevention & Control in 2022 Autumn

& Winter Period in Nanyang, requiring strengthened regional joint prevention & control in all departments at all levels so as to continuously

improve air quality. Specifically, it urges properly conducting the examination and approval of energy-intensive and large-emission

projects on energy conservation measures, to comprehensively manage pollution sources. Enterprises in key industries are required to

attain emission reduction and output reduction tasks on time, and conduct peak-shaving production.

The government of Huzhou City of Zhejiang Province pays attention to the management of volatile organic compounds (VOCs) emitted by

industrial enterprises. Huzhou government will promote the use of low-VOC or non-VOC raw & auxiliary materials, and strive to replace

the VOC-containing materials in 1,411 VOCs-using enterprises by the end of this year. To better regulate disorganised emission of

particulate matters from industrial enterprises, a special operation targeting foundry industry will be carried out, and the supervision on

mining-related enterprises will be strengthened. At the same time, acceptance of projects into small-scale parks will be strictly controlled

to promote green & low-carbon development.

The government of Nanchang City of Jiangxi Province aims at continuing to reduce industrial pollution emissions and accelerate the

launch of key emission reduction projects.

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14



Import and Export

China's lambda-cyhalothrin TC export to the US grows in Jan.-Aug. 2022

Summary: In Jan.—Aug. 2022, lambda-cyhalothrin products from China were mainly exported to the US, Belgium, India, etc. The total export volume (actual volume) went down by 58.12% YoY, but export volume of TC products increased. And the US was the largest export destination of China's lambda-cyhalothrin TC; its share to the total lambda-cyhalothrin TC export was 50.79% in this period, up 1. 69 percentage points YoY.

According to the import and export data updated on 11 Oct. from Tranalysis, in Jan.—Aug. 2022, lambda-cyhalothrin products from China were mainly exported to the US, Belgium, India, etc. The total export volume was 3,775.52 tonnes (actual volume), or 2,576.29 tonnes (100% Al volume), down 58.12% YoY.

The details of China's lambda-cyhalothrin exports in Jan.-Aug. 2022 are as follows:

- Specification for export: 95% TC, 96% TC, 97% TC, 10% SC, 10% WP, 250g/L CS, 25g/L EC, 25g/L EW, 5% SG, 50g/L EC, 50g/L ME, 8% ME
- Average export price: USD31.70/kg for TC products and USD5.80/kg for formulation products
- Major exporter: The top 3 exporters, Youth Chemical Co., Ltd., Shanghai E-tong Chemical Co., Ltd. and China Jiangsu International Economic and Technical Cooperation Group, Ltd., together exported 1,957.01 tonnes (actual volume) of lambda-cyhalothrin products, making up 51.83% of China's total exported to major destinations.

Export volume of the TC products reached 2,624.03 tonnes (actual volume), or 2,498.47 tonnes (100% AI volume), accounting for 69.50% of the total. And TC export to the largest destination, the US, increased to 1,332.75 tonnes (actual volume), or 1,269.32 tonnes (100% AI volume), which accounts for 50.79% of the total TC export, the share up 1.69 percentage points YoY. Youth Chemical Co., Ltd., Nufarm Chemical (Shanghai) Co., Ltd., Adama Makhteshim Ltd. and Jiangsu Changlong Agrochemical Co., Ltd. were the major exporters of lambda-cyhalothrin TC to the US in this period.



 TABLE 7: Exports of lambda-cyhalothrin products from China, Jan.–Aug. 2022

Category	Specification	Volume, kg	Average price, USD/kg
	95% TC	2,211,245	31.71
Technical	96% TC	261,470	32.59
	97% TC	151,311	29.98
Su	btotal	2,624,026	31.70
	25g/L EC	682,158	3.62
	50g/L EC	231,735	5.22
	250g/L CS	158,934	15.28
	10% SC	33,320	5.43
Formulations	25g/L EW	16,000	14.28
	10% WP	11,910	6.91
	50g/L ME	11,168	3.55
	8% ME	4,070	7.52
	5% SG	2,200	8.08
Su	ıbtotal	1,151,495	5.80
Total		3,775,521	23.80

Note: The data, sourced from Tranalysis, were updated on 11 Oct., 2022.

Source:Tranalysis



 TABLE 8: Major exporters of lambda-cyhalothrin products from China, Jan.—Aug. 2022

No.	Exporter	Volume, kg
1	Youth Chemical Co., Ltd.	1,722,792
2	Shanghai E-tong Chemical Co., Ltd.	129,600
3	China Jiangsu International Economic and Technical Cooperation Group, Ltd.	104,622
4	Jiangsu Changlong Agrochemical Co., Ltd.	103,320
5	Agro Lead Co., Ltd.	100,800
6	Nufarm Chemical (Shanghai) Co., Ltd.	96,516
7	JAT Offshore S.A.L.	71,776
8	Nanjing Bangnong Chemical Co., Ltd.	71,000
9	Guangdong Liwei Import and Export Co., Ltd.	65,950
10	Jiangsu Trustchem Co., Ltd.	65,146
	Others	1,244,000
	Total	3,775,521

Note: The data, sourced from Tranalysis, were updated on 11 Oct., 2022.

Source:Tranalysis



 TABLE 9: Export of China's lambda-cyhalothrin TC to top 10 destinations, Jan.-Aug. 2022 vs Jan.-Aug. 2021

Ne	Jan.–Aug. 2022			Jan.–Aug. 2021		
No.	Destination	Volume, kg	Share to total	Destination	Volume, kg	Share to total
1	The US	1,332,748	50.79%	The US	1,053,150	49.10%
2	Belgium	600,000	22.87%	India	345,725	16.12%
3	India	314,000	11.97%	Belgium	279,560	13.03%
4	Pakistan	137,900	5.26%	Brazil	143,450	6.69%
5	Russia	87,713	3.34%	Pakistan	94,300	4.40%
6	Turkey	86,700	3.30%	Turkey	88,400	4.12%
7	Vietnam	20,950	0.80%	Russia	54,225	2.53%
8	The Philippines	17,600	0.67%	Vietnam	45,200	2.11%
9	Kazakhstan	11,750	0.45%	Indonesia	12,200	0.57%
10	Indonesia	4,800	0.18%	Paraguay	10,000	0.47%

Note: The data, sourced from Tranalysis, were updated on 11 Oct., 2022.

Source:Tranalysis



Registration

ICAMA releases 38 newly-registered insecticides in Oct.

Summary: In Oct. 2022, ICAMA approved 38 newly-registered insecticide products, including three hygienic insecticide products.

In Oct. 2022, the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs of the People's Republic of China (ICAMA) approved registration of 38 insecticide products, including three hygienic insecticide products. These products are applicable on rice, spinach, peach trees, etc.; their control targets are beet armyworm, thrip, rice leaf roller, etc. Popular active ingredients used in these products include abamectin, abamectin-aminomethyl, chlorantraniliprole and bifenthrin.

Hebei Veyong Bio-Chemical Co., Ltd. has eight insecticide formulation products approved registration this month, and all are for export only: an abamectin-aminomethyl-metaflumizone SC, a bifenthrin-abamectin-acetamiprid EC, an emamectin benzoate EC, an emamectin benzoate WG and four abamectin EC products (with content 1.9%, 8%, 20g/L and 36g/L respectively).

TABLE 10: Form of newly-registered insecticides in China, 14 Sept.-8 Oct., 2022

No.	Form	Number
1	sc	11
2	EC	10
3	тс	4
4	WG	4
5	GR	2
6	FS	2
7	WP	1
8	UL	1
9	RQ	1
10	OD	1
11	ME	1
	Total	38

Source:ICAMA





 TABLE 11: Toxicity of newly-registered insecticides in China, 14 Sept.–8 Oct., 2022

No.	Toxicity	Number
1	Low	22
2	Moderate (TC is high)	6
3	Mild	5
4	Moderate	3
5	Low (TC is high)	2
	Total	38

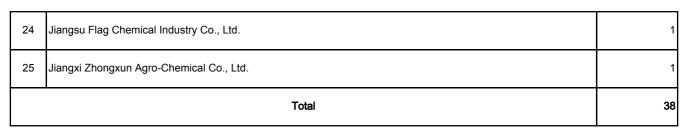
Source:ICAMA



 TABLE 12: Registrant of newly-registered insecticides in China, 14 Sept.–8 Oct., 2022

No.	Registrant	Number
1	Hebei Veyong Bio-Chemical Co., Ltd.	8
2	Ningbo Sunjoy Agroscience Co., Ltd.	3
3	Lier Chemical Co., Ltd.	2
4	Shandong Weifang Rainbow Chemical Co., Ltd.	2
5	Shaanxi Topsen Biological Technology Co., Ltd.	2
6	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	2
7	Jiangsu Aijin Crop Science and Technology Group Co., Ltd.	1
8	Shandong Jinqiu Yuantian Biotechnology Co., Ltd.	1
9	Hebei Xingbai Agricultural Technology Co., Ltd.	1
10	Jiangsu Fengshan Group Co., Ltd.	1
11	Hunan Agricultural University Heartale Agrochem Co., Ltd.	1
12	Jiangsu Rotam Chemistry Co., Ltd.	1
13	BrightMart CropScience Co., Ltd.	1
14	Trust Crop Protection Technology Co., Ltd.	1
15	Shandong Aosheng Biotechnology Co., Ltd.	1
16	Shaanxi Hengtian Biological Agriculture Co., Ltd.	1
17	Shandong Kanghui Crop Protection Co., Ltd.	1
18	Fumakilla Limited	1
19	Shandong Youdao Chemical Co., Ltd.	1
20	Dongguan Ruidefeng Biotechnology Co., Ltd.	1
21	Jiangxi Zhonghe Chemical Co., Ltd.	1
22	Jiangsu Greenscie Chemical Co., Ltd.	1
23	Shanxi Yitianfeng Crop Science Co., Ltd.	1

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Source:ICAMA

Registration of chlorantraniliprole products surges in China

Summary: In Oct., FLAGCHEM, Lier Chemical and Shandong Youdao obtained pesticide registration certificates for chlorantraniliprole TC. As of mid-Oct., ICAMA had so far approved registration of 19 chlorantraniliprole products (registration renewals included) in 2022, and more than half of the approved chlorantraniliprole TC products were first registered in 2022. The registration boom is encouraged by large market potential as well as the fact that the compound went off-patent in China from 13 Aug., 2022.

In Oct., Jiangsu Flag Chemical Industry Co., Ltd. (FLAGCHEM), Lier Chemical Co., Ltd. (Lier Chemical) and Shandong Youdao Chemical Co., Ltd. (Shandong Youdao) have obtained pesticide registration certificates for chlorantraniliprole TC in China. As of mid-Oct., 2022, the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA) had approved registration of 19 chlorantraniliprole products (registration renewals included) this year, and more than half of the so far approved chlorantraniliprole TC products were first registered in 2022. Starting from 13 Aug., 2022, the patent for the compound expired in China, which gives rise to the registration boom. Besides, as a low-toxicity high-efficacy insecticide, chlorantraniliprole enjoys great market potential. It is broad-spectrum, widely applicable and safe to environmental organisms. Pests that have certain resistance to popular insecticide products in the market have not developed resistance to chlorantraniliprole products yet. No wonder chlorantraniliprole has attracted the attention of many Chinese pesticide producers.

TABLE 13: Newly-registered chlorantraniliprole TC in China in Oct. 2022

No.	Registrant	Content	Toxicity
1	Jiangsu Flag Chemical Industry Co., Ltd.	95%	Low
2	Lier Chemical Co., Ltd.	96.5%	Low
3	Shandong Youdao Chemical Co., Ltd.	98%	Low

Source:ICAMA

Data from ICAMA show that as of 18 Oct., China had 73 chlorantraniliprole products (9 TC and 64 formulation products) approved registration. Currently, there are six leading registrants, each with at least three registered chlorantraniliprole products.

Now is a good time for pesticide enterprises to apply for registration of their chlorantraniliprole products. However, it should be noted that though the patent for the compound chlorantraniliprole expired, FMC Corporation still holds valid patents for production process, key intermediates, formulations and application; these chlorantraniliprole-related patents are well within the protection period. For instance, the





patent for chlorantraniliprole production process will remain valid until Dec. 2025.

TABLE 14: Registration of chlorantraniliprole formulation products in China, as of 18 Oct., 2022

Type of formulation	Form	Number of registration
	SC	9
	GR	7
Single formulation	WG	2
	FS	1
	UL	1
	Subtotal	20
	SC	22
	GR	10
Mixed formulation	WG	7
Wilked formulation	OD	3
	zc	2
	Subtotal	44
Total		64

Source:ICAMA

TABLE 15: Registrant with at least three registered chlorantraniliprole products in China, as of 18 Oct., 2022

No.	Registrant	Number of registration
1	Syngenta AG	6
2	FMC Corporation	4
3	Guangxi Tianyuan Biochemistry Co., Ltd.	4
4	Syngenta Nantong Crop Protection Co., Ltd.	4
5	Hebei Guanlong Agrochemical Co., Ltd.	3
6	Shenzhen Noposion Agrochemicals Co., Ltd.	3

Source:ICAMA

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News in Brief

Shandong Youdao makes provisional acceptance of chlorantraniliprole TC and intermediate production lines

On 30 Sept., Shandong Youdao Chemical Co., Ltd. (Shandong Youdao) finished provisional acceptance of the production lines for chlorantraniliprole TC and intermediates. These lines are parts of the green crop protection products project (Phase I). The company expects that commissioning test run will be possible in mid-to-late Oct., which will make Shandong Youdao the first qualified Chinese chlorantraniliprole TC manufacturer with independent intellectual property rights (not infringe existing patents) as well as with presence across the complete industrial chain of chlorantraniliprole.

The Phase II project has planned to build capacity for 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylic acid, which is currently undergoing procedures for approval. Construction is estimated to kick off after the Chinese New Year and will be completed in Oct. 2023. If Phase II is successfully put into operation, Shandong Youdao will self-supply all the key intermediates for chlorantraniliprole TC production.

Cangzhou Xingbai to build capacity of insecticide TC & formulations

On 8 Oct., Xingbai (Cangzhou) Technology Co., Ltd. (Cangzhou Xingbai)'s 11,600 t/a high-efficacy low-toxicity pesticide TC & formulations project (Phase I & Phase II) was approved by local authorities. The whole project is divided into three phases, and the main construction content of the first two phases is as follows:

- Phase I: 1,500 t/a dinotefuran 20% SC, 1,500 t/a abamectin 10% SC, and 1,000 t/a abamectin 5% EW;
- Phase II: 500 t/a emamectin benzoate TC, 500 t/a oxine-copper TC, and 500 t/a flucarbazone-Na TC & 100 t/a monosulfuron TC (the two products share the same production line).

Hebei Lanrun's TC & adjuvant production line transformation project to be re-assessed

On 17 Oct., local authorities announced acceptance of Hebei Lanrun Plant Protection Technology Co., Ltd. (Hebei Lanrun)'s environmental impact (EI) report for re-assessment of the pesticide TC and adjuvant production line transformation project. This project was approved construction in May 2022 and came into trial production in June 2022. Yet the trial run found that average emission concentration of nitrogen oxides had exceeded the predicted concentration given in previous EI report and the total emission would surpass the predicted emission load. This forced Hebei Lanrun to apply for a new approval.

After the technological transformation, Hebei Lanrun's pesticide production capacity includes:

- Technical: 500 t/a spirotetramat TC, 1,000 t/a clethodim TC, 2,000 t/a clethodim TK, and 100 t/a sethoxydim TC;
- Adjuvant: 300 t/a isoxadifen-ethyl;
- Formulation: 500 t/a 120g/L clethodim EC, 900 t/a 240g/L clethodim EC.

Hebei Lanrun is a major spirotetramat TC producer in China.

Jiangsu Yangnong projects net profit growth in Q1-Q3 2022

On 21 Oct., Jiangsu Yangnong Chemical Co., Ltd. (Jiangsu Yangnong) released its performance estimation for Q1–Q3 2022. It expected



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the net profit attributable to shareholders of the listed company to reach about USD231 million (RMB 1,638 million), up some 61% YoY.

The growth should be mainly attributed to the following drivers:

• Rising sales price of some major pesticide products compared with the same period last year.

Projects in its subsidiary Jiangsu Youjia Crop Protection Co., Ltd. have progressed well. Phase III project has been put into full
operation and the first-stage program of the Phase IV project has also been launched into operation (first-stage program includes

3,800 t/a bifenthrin, 1,000 t/a fluazinam, 3,000 t/a difenoconazole, 6,000 t/a mesotrione).

• Effective measures have been taken to strike a balance between COVID-19 epidemic prevention and normal production.

El report of Jiangsu Gongcheng's 18.5kt/a hygienic insecticides project accepted

On 18 Oct., local authorities announced acceptance of Jiangsu Gongcheng Bio-tech Co., Ltd. (Jiangsu Gongcheng)'s environmental

impact (EI) report for the 18,500 t/a non-agricultural pesticide formulations processing & subpackaging project. Jiangsu Gongcheng will

invest USD15.49 million (RMB110 million) in this project, which plans to optimise its product structure and provides pyrethroid,

heterocyclic and organophosphorus insecticide formulations in more forms. Upon completion of the project, its existing 2,410 t/a hygiene

pesticide formulation lines and 50 t/a permethrin TC line will be dismantled.

Jiangsu Gongcheng (formerly known as Nantong Gongcheng Fine Chemical Co., Ltd.) was established in March 1999. It mainly engages

in R&D, production, sale of pesticides technical and formulations, especially hygienic insecticides, and technical services. It is one of the

major manufacturers of hygienic insecticide formulations in China. Currently, it has 2,410 t/a active production capacity for hygienic

pesticide formulations.

Jiangsu Changqing to complete 12kt/a pesticides relocation project by the end of 2024

On 25 Oct., Jiangsu Changqing Agrochemical Co., Ltd. (Jiangsu Changqing) announced to relocate its pesticide TC production equipment

and environmental protection facilities away from the 1-kilometre range to the Yangtze River. Jiangsu Changqing's Sanjiang Avenue

Plant, located in Yangzhou City, Jiangsu Province, is divided into southern plant and northern plant. The company plans to acquire 24.2

ha industrial land on the north of the northern plant.

This relocation project, with estimated investment of USD211.29 million (RMB1.50 billion), is scheduled to complete by the end of 2024.

During the process, Jiangsu Changqing will slash its production capacity by 13,170 t/a, covering products like benazolin-ethyl,

chlorpyrifos, triazophos, imazethapyr and acetamiprid. Once completed, the company will retain 12,000 t/a pesticide capacity for 19

products (11 herbicides, 4 fungicides and 4 insecticides). The project does not involve capacity expansion for its existing products, nor

capacity building plan for new products.

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26



TABLE 16: Production capacity of insecticide products in Jiangsu Changqing after relocation

No.	Insecticide products	Capacity, t/a
1	98% Imidacloprid TC	3,000
2	96% Diafenthiuron TC	1,200
3	96% Fipronil TC	500
4	98% Thiamethoxam TC	300
	Total	5,000

Source: Environmental impact report of Jiangsu Changqing's relocation project

Chongqing accredits seven chemical parks

On 10 Oct., the Chongqing Municipal Commission of Economy and Information Technology issued the list of seven approved chemical parks.

TABLE 17: List of approved chemical parks in Chongqing Municipality

No.	Chemical park	Location
1	Changshou Economic Development Zone New Material Industrial Park	Changshou District
2	Wanzhou Economic Development Zone Chemical Industry Park	Wanzhou District
3	Baitao Industrial Park Chemical Industry Park	Fuling District
4	Fuling Lingang Economic Zone Chemical Industry Park	Fuling District
5	Nanchuan Industrial Park Shuijiang Chemical Industry Park	Nanchuan District
6	Guanba Fuhuan Circular Economy Industrial Park	Wansheng Economic and Technological Development Zone, Qijiang District
7	Tongnan High-tech Zone Chemical Industry Park	Tongnan District

Source: Chongqing Municipal Commission of Economy and Information Technology

Jiangsu issues Implementation Plan for Carbon Peaking

On 3 Oct., the Jiangsu Provincial People's Government issued the Implementation Plan for Carbon Peaking in Jiangsu Province, laying out eight special operations. The Plan proposes that rushing to launch energy-intensive and high-carbon-emission projects with backward technologies should be resolutely curbed. It also highlights measures to boost carbon peaking in key industries such as petrochemical industry. Moreover, across-the-board energy-conserving strategy should be actively promoted, and in industrial parks, circular economy





should be facilitated, circular operations bolstered, and circular industry system established. By 2025, across the province, comprehensive utilisation rate of bulk industrial solid wastes should be maintained at above 90%, and circulating transformation completed in all province-level industrial parks.

Hebei Nongxin to launch two chlorantraniliprole formulations in Nov.

In Oct., CCM learned from Hebei Nongxin Biotechnology Co., Ltd. (Hebei Nongxin) that it would hold a trade promotion meeting for its new chlorantraniliprole formulation products in Shijiazhuang City, Hebei Province on 18 Nov. The two products to be debuted are: Nongxin Tengge®, a mixed formulation chlorantraniliprole indoxacarb 25% SC, and Nongxin Zhanshen®, a single formulation chlorantraniliprole 30% SC. Hebei Nongxin obtained pesticide registration certificates for both products in H2 2021.

Insecticide price index follows downtrend in Q1–Q3 2022

In Oct., China Crop Protection Industry Association (CCPIA) updated the Sept. data of China Agricultural Price Index (CAPI). The price index for insecticides was 127.42 in Sept., down 0.83% MoM, but it still marks a 10.53% YoY jump. In Q1–Q3 2022, the insecticide price index only moved up slightly on a monthly basis in June and July.

Market demand for insecticides has been generally lacklustre this year, with the price of most insecticide products gradually slipping from the peak witnessed late last year. However, in general, the Sept. price of insecticide products was still at a high level.

TABLE 18: Price index for insecticides from the CAPI, Q1–Q3 2022

Month	Insecticide price index	MoM change
Jan.	142.57	-1.72%
Feb.	139.80	-1.94%
March	132.39	-5.30%
April	127.84	-3.44%
May	126.98	-0.67%
June	127.47	0.39%
July	128.68	0.95%
Aug.	128.49	-0.15%
Sept.	127.42	-0.83%

Source: CCPIA





Price Update

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

TABLE 19: Ex-works prices of major insecticides in China, 8 Oct., 2022

Draduct	20220908		20221008	
Product	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	590,000	85,729.65	576,000	81,135.9
97% Acephate technical	58,000	8,427.66	58,000	8,169.93
95% Acetamiprid technical	144,500	20,996.5	145,300	20,467.09
95% Azocyclotin technical	210,000	30,513.94	190,000	26,763.58
95% Beta-Cypermethrin technical	166,400	24,178.67	166,400	23,439.26
97% Bifenthrin technical	275,000	39,958.73	272,500	38,384.61
95% Buprofezin technical	75,000	10,897.84	75,000	10,564.57
98% Carbofuran technical	115,000	16,710.02	115,000	16,199.01
98% Chlorfenapyr technical	321,000	46,642.74	304,400	42,878.07
95% Chlorfluazuron technical	485,000	70,472.68	480,000	67,613.25
95% Chlorpyrifos technical	53,500	7,773.79	52,500	7,395.2
94% Cypermethrin technical	83,000	12,060.27	80,000	11,268.88
99% Cyromazine technical	160,000	23,248.72	160,000	22,537.75
98% Deltamethrin technical	530,000	77,011.38	530,000	74,656.3
95% Diafenthiuron technical	145,000	21,069.15	140,000	19,720.53
98% Dimethoate technical	47,600	6,916.49	47,600	6,704.98
70% Emamectin benzoate technical	574,000	83,404.77	553,700	77,994.7
92% Fenvalerate technical	140,000	20,342.63	140,000	19,720.53
95% Fipronil technical	565,000	82,097.03	565,000	79,586.43
98% Hexaflumuron technical	530,000	77,011.38	530,000	74,656.3



97% Imidacloprid technical	157,500	22,885.46	156,900	22,101.08
98% Isoprocarb technical	44,000	6,393.4	44,000	6,197.88
95% Lambda-cyhalothrin technical	198,000	28,770.29	200,000	28,172.19
90% Malathion technical	37,000	5,376.27	37,000	5,211.85
95% Methidathion technical	90,000	13,077.4	90,000	12,677.48
Methomyl 90% SP	75,000	10,897.84	75,000	10,564.57
98% Methomyl technical	86,000	12,496.19	86,000	12,114.04
75% Omethoate technical	51,400	7,468.65	51,400	7,240.25
90% Phoxim technical	43,000	6,248.09	45,000	6,338.74
90% Profenofos technical	82,665	12,011.6	82,665	11,644.27
90% Propargite technical	60,000	8,718.27	60,000	8,451.66
95% Pymetrozine technical	144,300	20,967.44	142,500	20,072.68
95% Pyridaben technical	104,000	15,111.67	104,000	14,649.54
97% Spirodiclofen technical	165,000	23,975.24	160,000	22,537.75
85% Triazophos technical	58,500	8,500.31	58,500	8,240.37
	-			

Note:Ex-works price includes VAT.

Source:CCM

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



TABLE 20: Shanghai Port prices of major insecticides in China, 8 Oct., 2022

Postori	20220908		20221008	
Product	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	590,500	85,802.3	576,500	81,206.33
97% Acephate technical	58,500	8,500.31	58,500	8,240.37
95% Acetamiprid technical	145,000	21,069.15	145,800	20,537.53
95% Azocyclotin technical	210,500	30,586.59	190,500	26,834.01
95% Beta-Cypermethrin technical	166,900	24,251.32	166,900	23,509.69
97% Bifenthrin technical	275,500	40,031.39	273,000	38,455.04
95% Buprofezin technical	75,500	10,970.49	75,500	10,635
98% Carbofuran technical	115,500	16,782.67	115,500	16,269.44
98% Chlorfenapyr technical	321,500	46,715.39	304,900	42,948.5
95% Chlorfluazuron technical	485,500	70,545.33	480,500	67,683.68
95% Chlorpyrifos technical	54,000	7,846.44	53,000	7,465.63
94% Cypermethrin technical	83,500	12,132.92	80,500	11,339.31
99% Cyromazine technical	160,500	23,321.37	160,500	22,608.18
98% Deltamethrin technical	530,500	77,084.03	530,500	74,726.73
95% Diafenthiuron technical	145,500	21,141.8	140,500	19,790.96
98% Dimethoate technical	48,100	6,989.15	48,100	6,775.41
70% Emamectin benzoate technical	574,500	83,477.43	554,200	78,065.13
92% Fenvalerate technical	140,500	20,415.28	140,500	19,790.96
95% Fipronil technical	565,500	82,169.69	565,500	79,656.86
98% Hexaflumuron technical	530,500	77,084.03	530,500	74,726.73
97% Imidacloprid technical	158,000	22,958.11	157,400	22,171.51
98% Isoprocarb technical	44,500	6,466.05	44,500	6,268.31

95% Lambda-cyhalothrin technical	198,500	28,842.94	200,500	28,242.62
90% Malathion technical	37,500	5,448.92	37,500	5,282.29
95% Methidathion technical	90,500	13,150.06	90,500	12,747.92
Methomyl 90% SP	75,500	10,970.49	75,500	10,635
98% Methomyl technical	86,500	12,568.84	86,500	12,184.47
75% Omethoate technical	51,900	7,541.3	51,900	7,310.68
90% Phoxim technical	43,500	6,320.75	45,500	6,409.17
90% Profenofos technical	83,165	12,084.25	83,165	11,714.7
90% Propargite technical	60,500	8,790.92	60,500	8,522.09
95% Pymetrozine technical	144,800	21,040.09	143,000	20,143.11
95% Pyridaben technical	104,500	15,184.32	104,500	14,719.97
97% Spirodiclofen technical	165,500	24,047.89	160,500	22,608.18
85% Triazophos technical	59,000	8,572.96	59,000	8,310.8

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 Oct. 2022



 $\textbf{TABLE 21:} \ FOB \ Shanghai \ prices \ of \ major \ insecticides \ in \ China, \ 8 \ Oct., \ 2022, \ USD/t$

97% Acephate technical 8,059.62 7,813.1 95% Acetamiprid technical 20,572.64 20,053.0 95% Acetamiprid technical 22,824.9 22,834.9 95% Beta-Cypermethrin technical 22,834.9 22,136.5 95% Beta-Cypermethrin technical 37,837.44 36,156.1 95% Buprofezin technical 10,751.92 10,423.1 95% Buprofezin technical 10,751.92 10,423.1 95% Carboturan technical 16,404.13 15,902.4 95% Chloriportic technical 45,513.02 41,847.2 95% Chlorifuazuron technical 88,687.08 65,901.6 95% Chlorifuazuron technical 11,467.2 10,720.1 95% Cypermethrin technical 11,467.2 10,720.1 95% Cypermeth	Product	20220908	20221008
95% Acetamiprid technical 20,572,64 20,053,0 95% Azocyclotin technical 29,828,13 26,176,2 95% Beta-Cypermethrin technical 22,834,9 22,136,5 97% Bifenthrin technical 37,637,44 36,156,1 95% Buprofezin technical 10,751,92 10,423,1 98% Carbofuran technical 16,404,13 15,902,4 98% Chlorfenapyr technical 45,513,02 41,847,2 95% Chlorpyrifos technical 68,887,08 65,901,6 95% Chlorpyrifos technical 7,713,86 7,340,9 95% Cypermethrin technical 11,467,2 10,720,1 99% Cypermethrin technical 72,394,78 70,180,8 95% Diatenthiuron technical 19,918 18,648,2 95% Diatenthiuron technical 19,918 18,648,2 95% Fernvalerate technical 19,236,49 18,848,2 95% Fipronii technical 79,991,51 77,545,2 98% Hexaflumuron technical 75,045,82 72,750,8 98% Hexaflumuron technical 75,045,82 72,750,8 98% Hexaflumuron technical 75,045,82 72,750,8	95% Abamectin technical	83,524.14	79,052.12
95% Azocyclotin technical 29,828,13 26,176.2 95% Beta-Cypermethrin technical 22,834.9 22,136.5 97% Bifenthrin technical 37,637.44 36,156.1 95% Buprofezin technical 10,761.92 10,423.1 98% Carbofuran technical 16,404.13 15,902.4 98% Chlorfenapyr technical 45,513.02 41,847.2 95% Chlorifuazuron technical 68,687.08 65,901.6 95% Chlorpyrifos technical 7,713.86 7,340.9 95% Cypermethrin technical 11,467.2 10,720.1 95% Cypermethrin technical 21,962.55 21,290.9 95% Cypermethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 95% Diafenthiuron technical 81,263.25 75,997.3 95% Fernvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,645.2 95% Fipronil technical 79,991.51 77,645.2 95% Fipronil technical 75,045.82 72,750.8 95% Imidasloprid technical 75,045.82 72,750.8	97% Acephate technical	8,059.62	7,813.15
95% Beta-Cypermethrin technical 22,834,9 22,136,5 97% Bifenthrin technical 37,637,44 36,156,1 95% Buprofezin technical 10,751,92 10,423,1 98% Carbofuran technical 16,404,13 15,902,4 98% Chlorflenapyr technical 45,513,02 41,847,2 95% Chlorfluazuron technical 68,687,08 65,901,6 95% Chlorpyrifos technical 7,713,86 7,340,9 94% Cypermethrin technical 11,467,2 10,720,1 99% Cyromazine technical 21,962,55 21,290,9 98% Deltamethrin technical 72,394,78 70,180,8 95% Diafenthiuron technical 19,918 18,648,2 98% Dimethoate technical 6,642,06 6,438,9 70% Emamectin benzoate technical 81,263,25 75,997,3 92% Fervalerate technical 19,236,49 18,648,2 95% Fipronil technical 75,045,82 72,750,8 97% Imidacloprid technical 22,409,6 21,642,1 98% Isoprocarb technical 6,151,37 5,963,2	95% Acetamiprid technical	20,572.64	20,053.09
97% Bifenthrin technical 37.637.44 36.156.1 95% Buprofezin technical 10,751.92 10,423.1 98% Carbofuran technical 16,404.13 15,902.4 98% Chlorfenapyr technical 45,513.02 41,847.2 95% Chlorfunazuron technical 68,687.08 65,901.6 95% Chlorpyrifos technical 7,713.86 7,340.9 94% Cypermethrin technical 11,467.2 10,720.1 99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,842.06 6,438.9 97% Emamectin benzoate technical 19,236.49 18,648.2 98% Fipronii technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,824.1	95% Azocyclotin technical	29,828.13	26,176.28
95% Buprofezin technical 10,751.92 10,423.1 98% Carbofuran technical 16,404.13 15,902.4 98% Chlorfenapyr technical 45,513.02 41,847.2 95% Chlorfluazuron technical 68,687.08 65,901.6 95% Chlorpyrifos technical 7,713.86 7,340.9 94% Cypermethrin technical 11,467.2 10,720.1 99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 95% Dimethoate technical 6,642.06 6,438.9 95% Fipronil technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1	95% Beta-Cypermethrin technical	22,834.9	22,136.58
98% Carbofuran technical 16,404.13 15,902.4 98% Chlorfenapyr technical 45,513.02 41,847.2 95% Chlorfluazuron technical 68,687.08 65,901.6 95% Chlorpyrifos technical 7,713.86 7,340.9 94% Cypermethrin technical 11,467.2 10,720.1 99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 70% Emamectin benzoate technical 81,263.25 75,997.3 92% Fernvalerate technical 19,236.49 18,648.2 95% Fipronil technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	97% Bifenthrin technical	37,637.44	36,156.11
98% Chlorfenapyr technical 45,513.02 41,847.2 95% Chlorfluazuron technical 68,687.08 65,901.6 95% Chlorpyrifos technical 7,713.86 7,340.9 94% Cypermethrin technical 11,467.2 10,720.1 99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 97% Emamectin benzoate technical 19,236.49 18,648.2 98% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1	95% Buprofezin technical	10,751.92	10,423.12
95% Chlorfluazuron technical 68,687.08 65,901.6 95% Chlorpyrifos technical 7,713.86 7,340.9 94% Cypermethrin technical 11,467.2 10,720.1 99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 97% Emamectin benzoate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 95% Fipronil technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	98% Carbofuran technical	16,404.13	15,902.48
95% Chlorpyrifos technical 7,713.86 7,340.9 94% Cypermethrin technical 11,467.2 10,720.1 99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 97% Emamectin benzoate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 95% Fipronil technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	98% Chlorfenapyr technical	45,513.02	41,847.25
94% Cypermethrin technical 11,467.2 10,720.1. 99% Cyromazine technical 21,962.55 21,290.9. 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 97% Emamectin benzoate technical 81,263.25 75,997.3 92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	95% Chlorfluazuron technical	68,687.08	65,901.65
99% Cyromazine technical 21,962.55 21,290.9 98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 70% Emamectin benzoate technical 81,263.25 75,997.3 92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	95% Chlorpyrifos technical	7,713.86	7,340.97
98% Deltamethrin technical 72,394.78 70,180.8 95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 70% Emamectin benzoate technical 81,263.25 75,997.3 92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	94% Cypermethrin technical	11,467.2	10,720.12
95% Diafenthiuron technical 19,918 18,648.2 98% Dimethoate technical 6,642.06 6,438.9 70% Emamectin benzoate technical 81,263.25 75,997.3 92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	99% Cyromazine technical	21,962.55	21,290.92
98% Dimethoate technical 6,642.06 6,438.9 70% Emamectin benzoate technical 81,263.25 75,997.3 92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	98% Deltamethrin technical	72,394.78	70,180.89
70% Emamectin benzoate technical 81,263.25 75,997.3 92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	95% Diafenthiuron technical	19,918	18,648.22
92% Fenvalerate technical 19,236.49 18,648.2 95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	98% Dimethoate technical	6,642.06	6,438.94
95% Fipronil technical 79,991.51 77,545.2 98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	70% Emamectin benzoate technical	81,263.25	75,997.37
98% Hexaflumuron technical 75,045.82 72,750.8 97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	92% Fenvalerate technical	19,236.49	18,648.22
97% Imidacloprid technical 22,409.6 21,642.1 98% Isoprocarb technical 6,151.37 5,963.2	95% Fipronil technical	79,991.51	77,545.29
98% Isoprocarb technical 6,151.37 5,963.2	98% Hexaflumuron technical	75,045.82	72,750.85
	97% Imidacloprid technical	22,409.6	21,642.11
95% Lambda-cyhalothrin technical 27,142.08 26,576.3.	98% Isoprocarb technical	6,151.37	5,963.25
	95% Lambda-cyhalothrin technical	27,142.08	26,576.32



90% Malathion technical	5,197.25	5,038.31
95% Methidathion technical	12,871.5	12,477.88
Methomyl 90% SP	10,751.92	10,423.12
98% Methomyl technical	13,399.98	12,990.2
75% Omethoate technical	7,160.01	6,941.05
90% Phoxim technical	6,190.9	6,273.77
90% Profenofos technical	11,421.54	11,072.26
90% Propargite technical	8,632.34	8,368.35
95% Pymetrozine technical	19,822.59	18,978.56
95% Pyridaben technical	14,849.77	14,395.65
97% Spirodiclofen technical	22,644.07	21,290.92
85% Triazophos technical	8,420.38	8,162.88

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

Journalist : June Editor : Joanna Chief Editor : Anton

Publisher: Kcomber Inc.

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