

Insecticides China Monthly Report

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Contents

Headline	1
Editor's note	3
Market analysis	4
General sluggish insecticide market registered in early Nov.	4
Pyrethroids see price edge up, yet most insecticides have price lowered in Nov.	5
Company and supply	8
Chinese insecticide TC producers operate at relatively low level in Nov.	8
Qilu Pharmaceutical's sub-subsidiary plans to build 500 t/a spinetoram TC capacity	9
Weifang Shuangxing plans to expand capacity for its main product chlorfenapyr TC	10
Gansu Lanwo to become a flonicamid TC supplier in Chinese pesticide market	12
Policy	14
Provisions on the Supervision and Management of the Safety of Major Hazard Installations for Hazardous Chemicals (Revision Draft for Comments) issued	14
Registration	16
46 Insecticide products approved of registration in Nov.	16
Pest	19
NATESC issues technical programme for oilseed rape pest & disease control	19
Trade analysis	20
China's insecticide formulation Exp. volume ups YoY in Sept., but Imp. volume had reverse trend	20
Brief news	23
Anhui Huilong: chlorantraniliprole TC & intermediate project to go into operation in 2024	23
Sino-Agri Union plans to build 700 t/a cyflumetofen TC capacity in its subsidiary	23
Shandong Youdao to build 9,000 t/a chlorantraniliprole capacity	23
MARA solicits suggestions on drafting & revising national standard for pesticide residues	23
MARA adds tomato leafworm into List of Class-I Crop Diseases and Pests	24
Chlorantraniliprole, dinotefuran, etc. to be reserved for national disaster relief in 2024–2026	24
Gansu Shengjinyuan plans to build capacity for thiamethoxam & clothianidin	24
NATESC releases technical opinions on cowpea disease & pest control	24
Dongying City to have four chemical parks expanded	25
Hebei Younongpai plans to build 2,000 t/a lambda-cyhalothrin capacity	25
Price update	26
Ex-works prices of major insecticides in China, 8 Nov., 2023	26
Shanghai Port prices of major insecticides in China, 8 Nov., 2023	27
FOB Shanghai prices of major insecticides in China, 8 Nov., 2023	29





Headline

In early Nov., the insecticide market was sluggish in general, and prices of the majority of insecticides TC either kept stable or slipped. Nicotinoid and organophosphorus insecticides had weak price, but pyrethroid insecticides saw the price recover somewhat. It is expected that the overall downtrend will continue in China's insecticide market.

In Nov., ex-works price of insecticides TC had MoM decrease in China. Specifically, the price of pyrethroid insecticides TC first went up but later dipped through this month, and prices of acaricides, carbamates, insect growth regulators and other insecticides remained low.

In Nov., as new orders came slowly from downstream sectors of most insecticides TC, average operating rate of Chinese insecticide TC producers was maintained at a relatively low level.

Hulun Buir Qilu Pharmaceutical has planned to build a 500 t/a spinetoram TC production line in its plant in the Arun Banner Industrial Park, Hulun Buir City, Inner Mongolia Autonomous Region. The project will use the company's self-produced spinosad TC as the main raw material.

Weifang Shuangxing has planned to double its chlorfenapyr TC capacity to 2,000 t/a. Chlorfenapyr TC is one of the company's main products, and the expansion project is its answer to the current market dynamics and a step to further its development.

Gansu Lanwo has finished the construction of a 500 t/a flonicamid TC production line. It is yet to come into trial run though.

On 7 Nov., the Provisions on the Supervision and Management of the Safety of Major Hazard Installations for Hazardous Chemicals (Revision Draft for Comments) was published. The exposure draft consists of 6 chapters and 44 articles. Comments are now requested and may be submitted until 7 Dec., 2023.

In Nov. 2023, altogether 46 insecticide products were approved of pesticide registration in China. Top three popular forms of these products are SC, GR and EC. The majority of them are of low or mild toxicity.

On 13 Nov., the NATESC issued the Technical Programme for the Prevention and Control of Major Oilseed Rape Pests and Diseases during the Whole 2023–2024 Growth Period. The document projects relatively heavy occurrences of pests including aphids, cabbage caterpillar and *Phaedon* spp. on oilseed rape, as there would be higher frequencies of warm winter and extreme low temperature days in winter rape production areas in China this year.

In Sept. 2023, China's insecticide formulations were mainly exported to Brazil, Thailand, Indonesia, etc.; the export volume grew by nearly 50% YoY. The import volume of insecticide formulations to China, however, dipped by some 15% YoY; Japan was the largest import origin during this period.







Editor's note

The 37th China Plant Protection Information Exchange & Pesticide and Sprayer Facilities Fair was held in Changsha City of Hunan Province this month, which helped stimulate downstream demand for pesticides to some extent. Yet in general, downstream markets of insecticides TC remained weak, and on average, insecticide TC ex-works price in Nov. slipped by 0.47% on a monthly basis, and fell by 20.83% on a yearly basis.

Overall operating rate of Chinese insecticide TC producers averaged at about 58%, which is a relatively low level. The majority of insecticides TC were in ample supply in the market, and there even was a glut of some products due to large inventories. The supply of pyrethroid insecticides became a little tight in early Nov., since some producers went into temporary production suspension; the supply was much improved by late Nov. as producers were gradually back to normal production.

Regarding new insecticide projects, Hulun Buir Qilu Pharmaceutical has planned to build a 500 t/a spinetoram TC production line, which could better utilise its existing spinosad TC capacity; Weifang Shuangxing has planned to expand its chlorfenapyr TC capacity. Besides, Gansu Lanwo has finished the construction of a 500 t/a flonicamid TC production line, and it will become a new player in the flonicamid market.

Also in Nov., the NATESC issued the Technical Programme for the Prevention and Control of Major Oilseed Rape Pests and Diseases during the Whole 2023–2024 Growth Period. As there would be higher frequencies of warm winter and extreme low temperature days in winter rape production areas in China this year, relatively heavy occurrences of pests including aphids, cabbage caterpillar and *Phaedon* spp. on oilseed rape are estimated. To control these pest, the document suggests that during oilseed rape flowering period, application of neonicotinoid pesticides such as thiamethoxam should be halted, since neonicotinoids have high toxicity to bees and the application will pose dangers to bees while honey gathering.

The USD/CNY exchange rate in this newsletter is USD1.00 = CNY7.1778 on 1 Nov., 2023, sourced from the People's Bank of China. All the prices mentioned in this newsletter will include the VAT, unless otherwise specified.





Market analysis

General sluggish insecticide market registered in early Nov.

Summary: In early Nov., the insecticide market was sluggish in general, and prices of the majority of insecticides TC either kept stable or slipped. Nicotinoid and organophosphorus insecticides had weak price, but pyrethroid insecticides saw the price recover somewhat. It is expected that the overall downtrend will continue in China's insecticide market.

In early Nov., the overall insecticide market was dull due to weak downstream demand. Insecticide TC price was much lower than the previous year level. On a monthly basis, the prices of nicotinoid insecticides TC, chlorpyrifos TC, phoxim TC and methomyl TC edged down, while the prices of many pyrethroids TC and carbofuran TC increased.

Nicotinoid insecticides: The early-Nov. ex-works prices of acetamiprid TC and imidacloprid TC dropped MoM. This month, the price of 2-nitroaminoimidazoline, an intermediate for imidacloprid, reduced as the price of its upstream raw material ethylenediamine was set lower after new capacity coming into operation. Lowered production costs and shrinking demand dragged down the imidacloprid TC price. As regards imidacloprid supply, over half of domestic imidacloprid TC producers have suspended their lines. Currently, the lines in Shandong Sino-Agri United Biotechnology Co., Ltd., Shandong Hailir Chemicals Co., Ltd., Wuzhong Linghang Biological & Pharmaceutical Co., Ltd. and Hebei Yetian Agrochemicals Co., Ltd. are in normal operation. It is believed that there will be a small decrease in the price of nicotinoid insecticides, as there are few negotiations for new orders.

Organophosphorus insecticides: In early Nov., the ex-works prices of acephate TC and triazophos TC remained stable; the prices of chlorpyrifos TC and phoxim TC decreased by 0.27% and 5.13% MoM, respectively. The price fall of chlorpyrifos TC slowed down, compared with the over 4% drop recorded in early Oct. Inquiries and transactions were not big both at home and abroad, and the slack demand dampened operating rates in manufacturers. As to chlorpyrifos TC producers, though Shandong Luba Chemical Co., Ltd., Hubei Benxing Agrochemical Co., Ltd., Zhejiang Xinnong Chemical Co., Ltd. and Jiangsu Fengshan Group Co., Ltd. still supply the product to the market, their lines have been operated at a low level, and therefore the overall supply has been limited. It is expected the price of chlorpyrifos TC will fluctuate and go down next month, considering the continued weak demand and a slim chance for a surge in new orders.

Pyrethroid insecticides: Although MoM increases were witnessed in the prices of pyrethroid insecticides TC in early Nov., price falls are quite big on a yearly basis. The price recovery was mainly the result of reduced supplies in the market. In fact, downstream sectors were still rather inactive in purchase; this lack of support from the demand side led to a downward trend in pyrethroid insecticide price in mid-Nov.





TABLE 1: Ex-works prices of major insecticide technical products in China in early Nov. 2023

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	RMB MoM change	RMB YoY change
Nicotinoid insecticide	95% Acetamiprid technical	83,000	11,563.43	-1.54%	-40.54%
	97% Imidacloprid technical	92,800	12,928.75	-1.18%	-38.09%
Pyrethroid insecticide	95% Beta-Cypermethrin technical	128,200	17,860.63	0.94%	-22.30%
	94% Cypermethrin technical	58,000	8,080.47	7.41%	-30.54%
	98% Deltamethrin technical	390,000	54,334.20	1.30%	-27.78%
	95% Lambda-cyhalothrin technical	119,000	16,578.90	3.48%	-38.97%
Organophosphorus insecticide	97% Acephate technical	43,000	5,990.69	0.00%	-25.86%
	95% Chlorpyrifos technical	36,900	5,140.85	-0.27%	-26.79%
	85% Triazophos technical	69,000	9,612.97	0.00%	16.95%
	90% Phoxim technical	37,000	5,154.78	-5.13%	-17.78%
Acaricide	90% Propargite technical	60,000	8,359.11	0.00%	0.00%
	97% Spirodiclofen technical	139,000	19,365.27	0.00%	-13.12%
Carbamate insecticide	98% Carbofuran technical	100,000	13,931.85	2.04%	-13.04%
	98% Methomyl technical	73,900	10,295.63	-5.26%	-7.63%
Insect growth regulator	95% Buprofezin technical	65,000	9,055.70	0.00%	-13.33%
Others	95% Abamectin technical	380,000	52,941.01	0.00%	-31.41%
	70% Emamectin benzoate technical	367,500	51,199.53	0.00%	-30.66%

Source:CCM

Pyrethroids see price edge up, yet most insecticides have price lowered in Nov.

Summary: In Nov., ex-works price of insecticides TC had MoM decrease in China. Specifically, the price of pyrethroid insecticides TC first went up but later dipped through this month, and prices of acaricides, carbamates, insect growth regulators and other insecticides remained low.





In China, the monthly ex-works prices of insecticides TC in Nov. slipped by 0.47% on average on a monthly basis, and fell by 20.83% on a yearly basis.

Nicotinoid insecticides: The Nov. ex-works price of nicotinoids decreased MoM. Main intermediates for insecticides under this category, such as 2-nitroaminoimidazoline and 2-chloro-5-(chloromethyl)pyridine (CCMP), witnessed downtrend in their prices, which could not effectively support the price of nicotinoids. Besides, there have been sufficient supplies of imidacloprid TC and acetamiprid TC in the market, plus normal operation in the majority of producers. However, downstream demand was dull and mainly small orders were made to replenish stock.

Pyrethroid insecticides: The ex-works price of pyrethroid insecticides TC first went up but later dipped through Nov., and in general, the price edged up 0.04% MoM. The prices of beta-cypermethrin TC, cypermethrin TC, etc. registered MoM increases in early-Nov., but the prices started to fall late this month. Compared with insecticides of other categories, the overall performance of pyrethroids is rather optimistic, mainly because the majority of producers reduced their output, and some even could not supply stably. Short-term supply shortage for some pyrethroid insecticides TC made their prices went up a little.

Organophosphorus insecticides: Average price fall for this category was logged at 0.39% on a monthly basis. Although some products like acephate TC and triazophos TC had stable price, most of organophosphorus insecticides TC have come into the off-season. Apart from a few orders to satisfy the rigid demand, new orders were rare. According to producers of insecticides TC under this category, at the end of Nov., sales pressures mounted and competition in the market turned intense. In order to attract orders, there exists the possibility of further lowering quotations.

For acaricides, carbamates, insect growth regulators and other insecticides, the market was quite dull. Ex-works prices of most TC products remained at a low level, and sales were under much pressure.





TABLE 2: Monthly ex-works prices of major insecticide TC products in China, Nov. 2023

Category	Product	Ex-works price in Nov. 2023 (RMB/t)	Ex-works price (USD/t)	RMB MoM change	RMB YoY change
Nicotinoid insecticide	95% Acetamiprid technical	82,200	11,451.98	-2.68%	-40.24%
	97% Imidacloprid technical	92,800	12,928.75	-1.59%	-36.33%
Pyrethroid insecticide	95% Beta-Cypermethrin technical	126,440	17,615.43	-1.19%	-22.19%
	94% Cypermethrin technical	58,000	8,080.47	1.40%	-30.54%
	98% Deltamethrin technical	390,000	54,334.20	1.30%	-27.78%
	95% Lambda-cyhalothrin technical	118,200	16,467.44	-1.34%	-38.60%
Organophosphorus insecticide	97% Acephate technical	43,000	5,990.69	0.00%	-23.89%
	95% Chlorpyrifos technical	36,740	5,118.56	-0.49%	-25.85%
	85% Triazophos technical	69,000	9,612.97	0.00%	16.95%
	90% Phoxim technical	37,000	5,154.78	-1.07%	-17.78%
Acaricide	90% Propargite technical	60,000	8,359.11	0.00%	0.00%
	97% Spirodiclofen technical	139,000	19,365.27	0.00%	-13.12%
Carbamate insecticide	98% Carbofuran technical	100,000	13,931.85	0.40%	-13.04%
	98% Methomyl technical	73,900	10,295.63	-1.10%	-7.63%
Insect growth regulator	95% Buprofezin technical	65,000	9,055.70	0.00%	-13.33%
Others	95% Abamectin technical	380,000	52,941.01	-1.66%	-30.66%
	70% Emamectin benzoate technical	367,500	51,199.53	0.00%	-30.13%

Source: CCM





Company and supply

Chinese insecticide TC producers operate at relatively low level in Nov.

Summary: In Nov., as new orders came slowly from downstream sectors of most insecticides TC, average operating rate of Chinese insecticide TC producers was maintained at a relatively low level.

In Nov., overall operating rate of Chinese insecticide TC producers averaged at about 58%, which is a relatively low level. The majority of insecticides TC were in ample supply in the market, and there even was a glut of some products due to large inventories. Although the supply of pyrethroid insecticides became a little tight in early Nov. for some producers went into temporary production suspension, the supply improved in late Nov. as producers were gradually back to normal production.

Organophosphorus insecticides: Chlorpyrifos TC has come into off-season and previous inventories still wait for consumption, so the producers have plans of lowering their operating rates in the near future. Regarding malathion TC, Shandong Luba Chemical Co., Ltd. had normal production, and its products were mainly for export; Huludao Lingyun Group Pesticides Chemical Co., Ltd. still suspended its malathion TC lines.

Nicotinoid insecticides: There was ample supply of nicotinoid insecticides TC in the market, and the market even was glutted with some products. Previously in Oct., to relieve supply shortage, imidacloprid TC producers increased their output, and in Nov., the tight supply was much eased. Producers like Shandong Sino-Agri United Biotechnology Co., Ltd., Shandong Hailir Chemicals Co., Ltd., Wuzhong Linghang Biological & Pharmaceutical Co., Ltd. and Hebei Yetian Agrochemicals Co., Ltd. stopped raising operating rates; they either stabilised the rate or lowered the rate instead. In the second half of Nov., these imidacloprid producers took a cautious attitude in production in case of cash-flow problem caused by overstock. For acetamiprid TC producers, their output started to decline in mid-Nov. as fewer new orders came. Producers of thiamethoxam TC mainly fulfil export orders, and with fewer orders coming, they lowered operating rates accordingly. Clothianidin TC and thiacloprid TC were in tepid market, and the producers mainly operated the lines to fulfil a few new orders.

Pyrethroid insecticides: The overall supply of pyrethroid insecticides improved through this month, turning from tight supply to much eased situation. In Nov., output of cyhalothrin TC and bifenthrin TC increased in producers such as Jiangsu Yangnong Chemical Co., Ltd., Guangdong Liwei Chemical Industry Co., Ltd. and Jiangsu Chunjiang Runtian Agrochemical Co., Ltd. According to some producers, the 37th China Plant Protection Information Exchange & Pesticide and Sprayer Facilities Fair held this month helped boost new orders, as some downstream players had plans for stocking.



TABLE 3: Supply of main insecticides TC in China in Nov. 2023

Category	Product	Average operating rate in Nov.	Supply situation in Nov.
Organophosphorus insecticide	Chlorpyrifos TC	70%	Ample supply
	Malathion TC	50%	Normal supply
Nicotinoid insecticide	Imidacloprid TC	60%	Ample supply
	Acetamiprid TC	60%	Ample supply
	Thiamethoxam TC	55%	Ample supply
	Clothianidin TC	70%	Ample supply
	Thiacloprid TC	60%	Ample supply
Pyrethroid insecticide	Cyhalothrin TC	45%	From tight supply to normal supply
	Bifenthrin TC	50%	Normal supply
Others	Abamectin TC	60%	Normal supply
	Emamectin benzoate TC	60%	Normal supply
	Propargite TC	70%	Normal supply
	Chlorfenapyr TC	50%	From tight supply to normal supply

Note:1. The operating rates are the averages of the rates in major producers, based on incomplete statistics.

2. Combined with information on downstream orders, the supply situation is here classified into: tight supply, normal supply and ample supply.

Source:CCM

Qilu Pharmaceutical's sub-subsidiary plans to build 500 t/a spinetoram TC capacity

Summary: Hulun Buir Qilu Pharmaceutical has planned to build a 500 t/a spinetoram TC production line in its plant in the Arun Banner Industrial Park, Hulun Buir City, Inner Mongolia Autonomous Region. The project will use the company's self-produced spinosad TC as the main raw material.

In early Nov., CCM learned from Qilu Pharmaceutical Co., Ltd. (Qilu Pharmaceutical) that its sub-subsidiary Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. Hulun Buir Branch (Hulun Buir Qilu Pharmaceutical) would invest in the construction of a 500 t/a spinetoram TC production line in its plant in the Arun Banner Industrial Park, Hulun Buir City, Inner Mongolia Autonomous Region. The project could make use of the spinosad TC produced by this sub-subsidiary and extend to produce spinetoram TC.

Hulun Buir Qilu Pharmaceutical was established in Nov. 2018 by Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. (Inner Mongolia Qilu Pharmaceutical), the latter is itself a wholly-owned subsidiary founded by Qilu Pharmaceutical in Hohhot City of Inner Mongolia in April



2009. Inner Mongolia Qilu Pharmaceutical focuses on the pesticide and veterinary drug businesses. Soon after establishment, it built up a production plant in the Economic and Technological Development Zone of Hohhot City. Hulun Buir Qilu Pharmaceutical is another production base of Inner Mongolia Qilu Pharmaceutical.

It is worth noting that, to serve the parent company Qilu Pharmaceutical's overall development plan for the pesticide business, Inner Mongolia Qilu Pharmaceutical acquired 100% equity of Anhui Huaxing Chemical Industry Co., Ltd., a backbone pesticide enterprise in China, in March 2022. Another important piece in Qilu Pharmaceutical's pesticide business is Qilu Synva Pharmaceutical Co., Ltd.

Currently, Hulun Buir Qilu Pharmaceutical has active capacity of 1,200 t/a abamectin TC, 1,200 t/a spinosad TC, 2,000 t/a tiamulin TC, 3,500 t/a neomycin TC and 5,000 t/a methyl oleate. And the planned spinetoram TC capacity is part of the company's newly-launched project—green biological pesticide and veterinary drug technological upgrade and transformation project. As is planned, the project will also build a 500 t/a ivermectin TC production line.

Indeed, the two proposed lines will take advantage of Hulun Buir Qilu Pharmaceutical's existing capacity for abamectin TC and spinosad TC. According to the company, once the new project is put into normal operation, 500 t/a of its existing spinosad TC capacity will be reserved for the purpose of spinetoram production, and 560 t/a abamectin TC capacity for ivermectin production.

At present, spinosad is a hot biopesticide in China's pesticide industry. With many good properties, the product is believed to have broad application. It is expected that vast blue ocean will remain to be explored in the spinosad market for a long while to come.

There are only a few spinosad TC producers in China, which gives the existing producers relatively strong pricing power. Hulun Buir Qilu Pharmaceutical, standing out with 1,200 t/a capacity, has a great influence and competitive strength in this market. Inner Mongolia New Veyong Bio-chemical Co., Ltd. is another domestic spinosad TC producer with a big production scale. Besides, the promising market has so far encouraged companies such as Hebei Xingbai Agricultural Technology Co., Ltd., Shaanxi Hengtian Biological Agriculture Co., Ltd. and Shandong Lukang Biological Pesticide Co., Ltd. to announce their spinosad capacity construction projects. More players are also expected to join this market in the near future. These will prompt rapid capacity expansion in China.

As to spinetoram, it is a second-generation spinosyn insecticide. It has greater activity and wider insecticidal spectrum than spinosad. To some extent, it is a competitor to spinosad. Confined by production technology and some other factors, fewer spinetoram TC producers exist in China. Hulun Buir Qilu Pharmaceutical's decision to build spinetoram TC capacity is made on the foundation that it has mastered a mature technology to produce the product. The company also expressed that after completion of the project, its spinetoram business would become only an extension and supplement to the spinosad business, rather than a replacement for the latter.

Weifang Shuangxing plans to expand capacity for its main product chlorfenapyr TC

Summary: Weifang Shuangxing has planned to double its chlorfenapyr TC capacity to 2,000 t/a. Chlorfenapyr TC is one of the company's main products, and the expansion project is its answer to the current market dynamics and a step to further its development.





On 3 Nov., Shandong Weifang Shuangxing Agrochemical Co., Ltd. (Weifang Shuangxing) published the environmental impact (EI) report of the 2,000 t/a chlorfenapyr technological transformation project. Weifang Shuangxing has planned to improve production technology and transform its existing 1,000 t/a chlorfenapyr production equipment. Upon completion, it will expand production capacity for chlorfenapyr TC to 2,000 t/a. Chlorfenapyr TC is one of Weifang Shuangxing's main products, and the company could better satisfy market demand and further its development with this expansion project.

Weifang Shuangxing, one of the backbone enterprises in China's pesticide industry, is a company under the Shandong A&Fine Agrochemicals Group. It has built up a large-scale production plant in the Weifang Binhai Green Chemical Industrial Park, Weifang City, Shandong Province. It now boasts production capacity of 1,000 t/a chlorfenapyr TC, 1,000 t/a copper acetate TC, 1,000 t/a propiconazole TC, 1,000 t/a difenoconazole TC and 50kg/a brassinolide TC, along with production lines for pesticide formulations. For these products, the company has acquired all the necessary qualifications for the production and operation.

Chlorfenapyr is a low-toxic, high-efficacy, novel pyrrole insecticide/acaricide with broad insecticidal spectrum and extensive scope of application. In China, Weifang Shuangxing is one of the early pioneers in the production of chlorfenapyr TC with certain scale. It played a big role in promoting the product in Chinese market, and in this process, it has grown into a leading chlorfenapyr producer in domestic market.

With growing attentions paid to chlorfenapyr, many Chinese enterprises have launched projects to build capacity for the product. The past three years, in particular, have seen new capacity built and put into operation in companies such as Qingdao Hengning Biotechnology Co., Ltd. (Qingdao Hengning), Shandong United Pesticide Industry Co., Ltd. (Shandong United Pesticide), Shandong Shinlon Group Biotechnology Co., Ltd. (Shandong Shinlon) and Shaanxi Meibang Pharmaceutical Group Co., Ltd. (Shaanxi Meibang). Beyond these companies, some others have chlorfenapyr TC projects under construction or going through formalities.

As regards the four new players in the market, they all have obtained pesticide registration certificates and production licences for chlorfenapyr TC products. Regarding their chlorfenapyr TC production capacity, Qingdao Hengning has set up 2,000 t/a capacity in its plant located in the Xinhe Ecological and Chemical Industry Base, Qingdao City, Shandong Province; Shandong United Pesticide has built up 800 t/a capacity in its plant in the Daiyue Chemical Industrial Park, Tai'an City, Shandong Province; Shandong Shinlon has had 600 t/a capacity in its plant in the Wanggao Industrial Park, Shouguang City, Shandong Province; Shaanxi Meibang has put into operation multi-purpose production facilities in its plant in the Pucheng Agrochemical Industrial Park, Weinan City, Shaanxi Province, which can switch production among several pesticides TC and the maximum design capacity for chlorfenapyr TC is 660 t/a. For Shaanxi Meibang, switch production makes the 660 t/a just a theoretical possibility, but it is worth noting that the company has already planned 2,000 t/a chlorfenapyr TC capacity in its subsidiary Shaanxi Nuozheng Biotechnology Co., Ltd.

In the foreseeable future, total chlorfenapyr TC capacity will keep increasing in China, with construction of the planned projects coming to a close one after another. Along with the growing capacity, China's pesticide market will benefit from larger chlorfenapyr supplies. However, for chlorfenapyr TC producers like Weifang Shuangxing, intensified competition is unavoidable. Weifang Shuangxing's chlorfenapyr capacity expansion project, which contributes its part to the overall expansion trend in China, from another perspective, will





help the company to gain a solid footing in a more competitive environment. Moreover, another noteworthy fact is that Weifang Shuangxing has the advantage of better upstream material supply over its competitors, as its sister company Shandong A&Fine Agrochemicals Co., Ltd. has 1,500 t/a active capacity for tralopyril, a key intermediate of chlorfenapyr, in its Beihai Branch.

Gansu Lanwo to become a flonicamid TC supplier in Chinese pesticide market

Summary: Gansu Lanwo has finished the construction of a 500 t/a flonicamid TC production line. It is yet to come into trial run though.

On 2 Nov., Gansu Lanwo Technology Co., Ltd. (Gansu Lanwo) revealed that it had built up a 500 t/a flonicamid TC production line, but trial run had not started yet. Once the capacity put into normal operation, the company will become a new flonicamid TC supplier in the Chinese pesticide market.

Gansu Lanwo, located in the Lanzhou New Area Qinchuan Chemical Park, Lanzhou City, Gansu Province, was jointly established in June 2020 by Wuxi Jiabao Pesticide & Pharmaceutical Co., Ltd. and Biotalk Co., Ltd. (Shanghai Biotalk). Then in Jan. 2023, Gansu Lanwo, with 70% acquired by ABA Chemicals (Nantong) Limited (Nantong ABA), a wholly-owned subsidiary of ABA Chemicals Corporation (ABACHEM), became an integral part of ABACHEM's pesticide business. Later, Nantong ABA transferred the 70% stake to its wholly-owned subsidiary Jiangsu Jiannong ABA Agrochemical Co., Ltd. (Jiangsu Jiannong). By early Nov. 2023, Jiangsu Jiannong had held 70% and Shanghai Biotalk 30% of Gansu Lanwo.

After establishment, Gansu Lanwo launched industrial projects to build production capacity for pesticide intermediates, TC products and formulations. The 500 t/a flonicamid TC capacity was planned in the phase I of the 20,000 t/a novel pesticide TC, formulations and intermediates project. Specifically, for the phase I program, the company has planned to build:

- In A Class workshop No.1, a shared production line for 50 t/a boscalid TC or 100 t/a fenbutatin oxide TC, a 500 t/a flonicamid TC line, a 300 t/a isofetamid TC line and a 400 t/a cyazofamid TC line;
- In A Class workshop No.2, a 600 t/a amicarbazone TC line, a 500 t/a 6-chloro-3-(methylsulfonyl)-2-(2-methoxyethoxy)-1-methylbenzene line, a 150 t/a pyrasulfotole TC, a 250 t/a isoxaflutole TC line, etc.;
- In B Class workshop No.1, a 2,000 t/a ethephon 40% AS line, a 2,000 t/a indoxacarb 30 % SC line, a 1,000 t/a fenbutatin oxide 50% WP line and a 2,000 t/a thiamethoxam 25% water dispersible formulation line.

As of 2 Nov., 2023, the phase I program had progressed smoothly, and all the workshops had been built up. As regards the specific production lines, the flonicamid TC line was finished first, while other lines are still under construction or yet to be built. It is worth mentioning that Gansu Lanwo disclosed on 1 Nov. that it planned to build an 8,710 t/a pesticide TC and intermediate project, which involves the construction of 4,000 t/a prothioconazole TC capacity, and it was actively pushing ahead with the related formality procedures to kick off the project.

Flonicamid, developed by the Japanese company Ishihara Sangyo Kaisha Ltd., is a low-toxicity novel pyridinecarboxamide insecticide/insect growth regulator. It can effectively control multiple pests with piercing-sucking mouthparts, and in particular, has good control effect against aphids. Besides, it is low-toxic to bees; this property makes the insecticide a good substitute to a series of neonicotinoid insecticides. It is widely believed that this product has the potential to gradually eat into the market shares held by





neonicotinoids.

The compound patent for flonicamid expired long ago in China. Yet so far not many Chinese pesticide enterprises have had flonicamid production lines with big scale, and thus the current flonicamid suppliers in Chinese market are not in intense competition. However, it is fair to say that flonicamid has emerged as a good choice for future development. Beyond Gansu Lanwo, more and more companies currently have had flonicamid projects either under construction or being considered. In the foreseeable future, China's total flonicamid capacity will grow rapidly.





Policy

Provisions on the Supervision and Management of the Safety of Major Hazard Installations for Hazardous Chemicals (Revision Draft for Comments) issued

Summary: On 7 Nov., the Provisions on the Supervision and Management of the Safety of Major Hazard Installations for Hazardous Chemicals (Revision Draft for Comments) was published. The exposure draft consists of 6 chapters and 44 articles. Comments are now requested and may be submitted until 7 Dec., 2023.

On 7 Nov., the Department of Regulations and Policies of the Ministry of Emergency Management of the People's Republic of China (MEM) revealed that MEM had decided to revise the Interim Provisions on the Supervision and Management of Major Hazard Installations for Hazardous Chemicals and by early Nov. the Provisions on the Supervision and Management of the Safety of Major Hazard Installations for Hazardous Chemicals (Revision Draft for Comments) had been formulated. Comments on the draft may be submitted until 7 Dec., 2023.

The revision draft consists of 6 chapters and 44 articles. Amendments are mainly made to the following aspects:

- First, according to the Work Safety Law of the People's Republic of China and the safety supervision responsibilities of the emergency management authorities, the draft clarifies that scope of application of the Provisions is limited to enterprises engaged in the production, storage, use and operation of hazardous chemicals, which is in compliance with the existing departmental rules and regulations concerning the safety of the production and operation of hazardous chemicals;
- Second, it optimises factors in the identification, grading and safety assessment of major hazard installations;
- Third, it emphasises the use of information technologies to implement safety supervision, monitoring and early warning of major hazard installations;
- Fourth, it further improves the working mechanism of the supervision on major hazard installations;
- Fifth, it adds that punishments will be meted out for behaviours including: monitoring system and the data generated being not in compliance with the related regulations, monitoring data being not connected to the monitoring and early warning system or the system being not operated effectively, self-evaluation and self-assessment of safety risks being not carried out before operation of production and storage facilities, shutting down the monitoring devices, tampering with data, and violations belonging to seven major hidden dangers, based on related laws and regulations including the Work Safety Law of the People's Republic of China, Law of the People's Republic of China on Administrative Penalty and the Notice of the State Council on Further Implementing the Law of the People's Republic of China on Administrative Penalty.

It is worth noting that the revised draft puts more emphasis on the idea that the primary person in charge of an enterprise is the responsible person. It also stresses the need of strengthened supervision and management of the safety of major hazard installations as well as effective measures taken by agencies responsible for the work safety supervision and management in various chemical industrial parks, industrial parks, development zones, etc.; these efforts could help prevent and defuse major safety risks and reduce the possibility of a domino effect. Hazardous chemical enterprises should set up and improve their rules for the management of the safety of major hazard installations (such as safety guarantee accountability system), safety rules for operating procedures, as well as a dual prevention mechanism for security risk classification management & control and hidden danger investigation & management; effective measures should be taken to ensure implementation. Once enterprises are ordered to suspend their production and storage facilities that are regarded as major hazard sources or to halt their business, and go through rectification, such enterprises, before they resume operation,





must go through review and get permission from the emergency management authorities that made the suspension decisions.





Registration

46 Insecticide products approved of registration in Nov.

Summary: In Nov. 2023, altogether 46 insecticide products were approved of pesticide registration in China. Top three popular forms of these products are SC, GR and EC. The majority of them are of low or mild toxicity.

In Nov. 2023, the Department of Agrochemical Management of the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) revealed a batch of pesticide products approved of registration. Of these products, 46 are insecticide products. Popular forms of these products are SC, GR and EC; products in SC form account for 57% of the total, and those in GR or EC forms together make up 22%. The majority of the insecticide products are of low or mild toxicity, with the low-toxic ones accounting for 78% and the mild-toxic 13%.

TABLE 4: Insecticide products approved of registration by toxicity, Nov. 2023

No.	Toxicity	Number
1	Low	36
2	Mild	6
3	Low (TC: highly toxic)	3
4	Moderate	1
Total		46

Source: MARA





TABLE 5: Insecticide products approved of registration by form, Nov. 2023

No.	Form	Number
1	SC	26
2	GR	6
3	EC	4
4	WG	2
5	ME	2
6	OD	1
7	SG	1
8	SL	1
9	EW	1
10	TC	1
11	FS	1
Total		46

Source: MARA



TABLE 6: Popular active ingredients in the approved insecticide products, Nov. 2023

No.	Active ingredient (AI)	Number of products containing the AI
1	Chlorantraniliprole	16
2	Abamectin-aminomethyl	8
3	Lufenuron	5
4	Fonicamid	5
5	Clothianidin	5
6	Bifenthrin	5
7	Abamectin	3
8	Dinotefuran	2
9	Thiamethoxam	2
10	Cyfluthrin	2
11	Chlorfenapyr	2
12	Deltamethrin	2
13	Acetamiprid	2
14	Bifenazate	2
15	Etoxazole	2

Source: MARA



Pest

NATESC issues technical programme for oilseed rape pest & disease control

Summary: On 13 Nov., the NATESC issued the Technical Programme for the Prevention and Control of Major Oilseed Rape Pests and Diseases during the Whole 2023–2024 Growth Period. The document projects relatively heavy occurrences of pests including aphids, cabbage caterpillar and *Phaedon* spp. on oilseed rape, as there would be higher frequencies of warm winter and extreme low temperature days in winter rape production areas in China this year.

On 13 Nov., the National Agro-Tech Extension and Service Centre (NATESC) issued the Technical Programme for the Prevention and Control of Major Oilseed Rape Pests and Diseases during the Whole 2023–2024 Growth Period. The document projects relatively heavy occurrences of pests including aphids, cabbage caterpillar and *Phaedon* spp. on oilseed rape, as there would be higher frequencies of warm winter and extreme low temperature days in winter rape production areas in China this year. In the past few years, there were relatively heavy occurrences of rape *Sclerotinia* stem rot and aphids in winter rape production areas in the Yangtze River basin, as well as relatively heavy occurrences of flea beetles, rapeseed stem weevil, rape beetle and *Evergestis extimalis* in spring rape production areas. These pests and diseases have greatly damaged oilseed rape production.

Control targets in oilseed rape production areas

- In the middle and lower reaches of the Yangtze River and triple-cropping production areas in southern China, which include Shanghai, Zhejiang, Anhui, Jiangsu, Jiangxi, Hubei, Hunan and southern Henan, and these are mainly winter rape production areas, main pests to be controlled are: aphids, cabbage caterpillar, diamondback moth, flea beetles, *Phaedon* spp., etc.;
- In the upper reach of the Yangtze River and the Yunnan-Guizhou plateau, which include Yunnan, Guizhou, Chongqing, Sichuan and Hanzhong area of Shaanxi, main pests to be controlled are: aphids, cabbage caterpillar, diamondback moth, flea beetles, *Entomoscelis suturalis*, etc.;
- In northern China and Qinghai-Xizang plateau, which include central and northern parts of Henan, Shanxi, parts of Shaanxi, Xizang, Northeast China and Northwest China, some of which are winter rape production areas while some others are spring rape areas, main pests to be controlled are: diamondback moth, cabbage caterpillar, beet armyworm, *Evergestis extimalis*, aphids, flea beetles, *Entomoscelis suturalis*, rapeseed stem weevil, etc.

The document also requires attentions to be paid to the following aspects in the control of these pests:

- During oilseed rape flowering period, application of neonicotinoid pesticides such as thiamethoxam should be halted, since neonicotinoids have high toxicity to bees and the application will pose dangers to bees while honey gathering.
- Various pesticides should be applied in a scientific manner, in strict accordance with prescribed dosage and concentration. Besides, pesticide rotation measures should be adopted to prevention resistance in pests, so as to better protect rape production and improve rape quality. If pesticides are sprayed by UAV, to achieve good control results, settling agents should be added to the drugs and sufficient water provided.





Trade analysis

China's insecticide formulation Exp. volume ups YoY in Sept., but Imp. volume had reverse trend

Summary: In Sept. 2023, China's insecticide formulations were mainly exported to Brazil, Thailand, Indonesia, etc.; the export volume grew by nearly 50% YoY. The import volume of insecticide formulations to China, however, dipped by some 15% YoY; Japan was the largest import origin during this period.

According to the statistics from General Administration of Customs of China (China Customs), in Sept. 2023, China exported 37,744 tonnes (actual volume, the same hereafter) of insecticide formulation products. The volume expanded 48.95% from the figure achieved in Sept. 2022. As regards insecticide formulation imports, in the same month, China imported 294 tonnes of insecticide formulation products; the volume decreased by 14.74% YoY.

In terms of export, export price during Sept. 2023 averaged at USD4.52/kg, down 23.13% YoY. Major export destinations of China's insecticide formulations were Brazil, Thailand, Indonesia, Vietnam, etc. in Sept. Brazil was the largest export destination; the volume to the country jumped to 9,077 tonnes from 4,099 tonnes in Sept. 2022, up 121.44% YoY.

In terms of import, average import price of insecticide formulations was USD17.62/kg during Sept. 2023, up 47.20% YoY. Japan was the largest import origin during this period, even though the volume from this origin actually dipped slightly from 68 tonnes in Sept. 2022 to 63 tonnes, which accounted for 21.43% of the total import volume of insecticide formulations to China in Sept. 2023. The second largest import origin was Singapore with 59 tonnes, the volume rocketing by 268.75% from 16 tonnes for the same period last year.

TABLE 7: Exports of insecticide formulations from China, Sept. 2023 vs Sept. 2022

Time	Actual volume, kg	Average price, USD/kg
Sept. 2023	37,744,129	4.52
Sept. 2022	25,339,440	5.88

Source: China Customs





TABLE 8: Major destinations of insecticide formulations exported from China, Sept. 2023 vs Sept. 2022

No.	Sept. 2023			Sept. 2022		
	Destination	Actual volume, tonne	Share	Destination	Actual volume, tonne	Share
1	Brazil	9,077	24.05%	Brazil	4,099	16.18%
2	Thailand	2,316	6.14%	Nigeria	1,884	7.44%
3	Indonesia	1,644	4.36%	Myanmar	1,391	5.49%
4	Vietnam	1,519	4.02%	Thailand	1,281	5.06%
5	Nigeria	1,477	3.91%	Vietnam	1,057	4.17%
6	Russia	1,455	3.85%	Indonesia	1,032	4.07%
7	Chile	1,175	3.11%	Chile	923	3.64%
8	Bangladesh	1,129	2.99%	The Philippines	742	2.93%
9	Myanmar	1,028	2.72%	Bangladesh	720	2.84%
10	Laos	1,014	2.69%	Cambodia	658	2.60%
	Others	15,910	42.16%	Others	11,552	45.58%
	Total	37,744	100.00%	Total	25,339	100.00%

Source:China Customs

TABLE 9: Imports of insecticide formulations to China, Sept. 2023 vs Sept. 2022

Time	Actual volume, kg	Average price, USD/kg
Sept. 2023	294,041	17.62
Sept. 2022	343,799	11.97

Source:China Customs



TABLE 10: Major origins of insecticide formulations imported to China, Sept. 2023 vs Sept. 2022

No.	Sept. 2023			Sept. 2022		
	Origin	Actual volume, tonne	Share	Origin	Actual volume, tonne	Share
1	Japan	63	21.43%	The US	143	41.57%
2	Singapore	59	20.07%	Japan	68	19.77%
3	Malaysia	42	14.29%	France	64	18.60%
4	Indonesia	41	13.95%	Belgium	28	8.14%
5	Australia	39	13.27%	Malaysia	17	4.94%
6	India	30	10.20%	Singapore	16	4.65%
	Others	20	6.79%	Others	8	2.33%
	Total	294	100.00%	Total	344	100.00%

Source: China Customs



Brief news

Anhui Huilong: chlorantraniliprole TC & intermediate project to go into operation in 2024

In late Oct., Anhui Huilong Agricultural Means of Production Co., Ltd. (Anhui Huilong) revealed that construction of the 2,000 t/a chlorantraniliprole TC and intermediate project undertaken by its wholly-owned subsidiary Anhui Huilong Group RMF Agrochemical Co., Ltd. (Anhui RMF Agrochemical) had been progressing smoothly and the lines were expected to come into normal operation in 2024.

According to the environmental impact report of the project, production capacity of 2,000 t/a chlorantraniliprole TC and 1,319 t/a the intermediate 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylic acid at phase I, and that of 2,200 t/a the intermediate 2-amino-5-chloro-N,3-dimethylbenzamide at phase II will be built in the Bengbu Fine Chemical High-Tech Industrial Base, Bengbu City, Anhui Province, with a total investment of USD131.41 million (RMB943.20 million), 6.77% of which, or USD8.90 million (RMB63.90 million) is for environmental protection. Once the project comes into operation, annual sales of USD139.32 million (RMB1,000 million) is expected to be achieved.

Sino-Agri Union plans to build 700 t/a cyflumetofen TC capacity in its subsidiary

On 30 Oct., Shandong Sino-Agri United Biotechnology Co., Ltd. (Sino-Agri Union) announced that it would invest a total of USD81.10 million (RMB582.14 million) to build three projects in its wholly-owned subsidiary Shandong United Pesticide Industry Co., Ltd., to pursue high-quality development, better satisfy market demand, facilitate commercialisation of innovative products, optimise product mix and improve production supporting capability. The three projects are:

- Scientific and technological achievements commercialisation centre project: Investment for this project is estimated at USD11.84 million (RMB84.97 million), and construction content includes production workshops, multi-functional pilot scale test lines and specialised pilot scale test and production lines for the commercialisation of innovative products;
- 700 t/a Cyflumetofen TC project: Investment for this project is estimated at USD23.29 million (RMB167.17 million), and construction content includes TC production workshops and production lines;
- Tank farm, warehouse and production supporting facilities project: Investment for this project is estimated at USD45.98 million (RMB330 million), and construction content includes tank farm for hazardous chemicals and handling zone, warehouses for raw materials and finished products, environmental protection facilities and other supporting facilities.

Shandong Youdao to build 9,000 t/a chlorantraniliprole capacity

On 26 Oct., the environmental impact report of Shandong Youdao Chemical Co., Ltd. (Shandong Youdao)'s green crop protection products continuous-flow safe production project (phase II) was approved by the Weifang Municipal Ecology and Environment Bureau. Shandong Youdao has planned to build production capacity of 9,000 t/a chlorantraniliprole, 7,000 t/a the intermediate 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylic acid, etc. in its existing plant in the Gaomi Renhe Chemical Industrial Park, Gaomi City, Shandong Province. Investment for the phase II program is USD134.50 million (RMB965.39 million), of which some 10%, or USD13.46 million (RMB96.60 million), is for environmental protection.

MARA solicits suggestions on drafting & revising national standard for pesticide residues

On 10 Nov., the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs of the People's Republic of China





(MARA) published the Notice on Soliciting Suggestions on the Project of Drafting and Revising National Standard for Pesticide Residues in 2024. According to the Notice, the following aspects should be minded during the solicitation process:

- National standards for pesticide residues that are suggested to be drafted or revised should comply with requirements in existing regulations, which mainly include maximum residue limits (MRL) of pesticides, pesticide residue testing methods and related technical procedures;
- Priority should be given to drafting and revising standards for products that the GB2763 National Food Safety Standard—Standard for Maximum Residue Limits of Pesticides in Food does not provide testing methods for or is not quite applicable;
- Priority should be given to drafting and revising pesticide MRLs that are badly needed in dietary risk management, which mainly include limits for banned and restricted pesticides in China, limits for newly-registered pesticides or such limits on crops, and limits of which revisions have been suggested after the implementation of the national standard GB2763.

MARA adds tomato leafworm into List of Class-I Crop Diseases and Pests

On 10 Nov., the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) announced that the pest *Tuta absoluta*, or tomato leafworm, had been added into the List of Class-I Crop Diseases and Pests, according to the Regulations on the Prevention and Control of Crop Diseases and Pests. MARA also requires all provincial governments to strengthen monitoring on this pest.

Tomato leafworm is an invasive pest worldwide. In China, the pest has established populations in Xinjiang and Inner Mongolia autonomous regions, Beijing Municipality, and Yunnan, Shanxi, Gansu, Sichuan, Liaoning and Shandong provinces. In general, the pest cause 20% to 30% reduction of tomato yield, and in some severe cases the reduction may rise to over 50%.

Chlorantraniliprole, dinotefuran, etc. to be reserved for national disaster relief in 2024–2026

On 13 Nov., China National Township Enterprises Co., Ltd., entrusted by the Department of Crop Production of the Ministry of Agriculture and Rural Affairs, and abiding by related national regulations, announced the start of open tender for national disaster relief pesticide reserve project for the 2024–2026 period. The tender is open to domestic companies. The pesticides listed by the company that are to be procured will be used to control major diseases and pests on the three staple crops—rice, wheat and maize; insecticides such as chlorantraniliprole, dinotefuran, nitenpyram and indoxacarb are on the list. For each of these four insecticides, value of goods to be stored in reserve is USD5.57 million (RMB40 million).

Gansu Shengjinyuan plans to build capacity for thiamethoxam & clothianidin

On 6 Nov., the Jiuquan Ecological Environment Bureau announced the acceptance for technology assessment of the environmental impact report of Gansu Shengjinyuan Biotechnology Co., Ltd. (Gansu Shengjinyuan)'s 7,600 t/a pesticide TC project. The company has planned to construct the project and set up new workshops, warehouses and supporting facilities in two phases in the Liugou Coal Chemical Industrial Park of Guazhou Industrial Concentration Zone, Jiuquan City, Gansu Province. According to the plan, the phase I will build production lines of 3,000 t/a thiamethoxam TC and 2,000 t/a clothianidin TC, and the phase II production lines of 600 t/a chlorfenapyr TC and 2,000 t/a pesticide intermediate 2-nitroaminoimidazoline.

NATESC releases technical opinions on cowpea disease & pest control

On 23 Nov., the National Agro-Tech Extension and Service Centre (NATESC) published the Technical Guiding Opinions on Green Control





of Diseases and Pests on Cowpea. The document puts forward control strategies as the following:

- Control pest sources. The critical pre-sowing period should be made good use of by taking actions such as turning up the soil and sunning the upturned soil, disinfecting the soil, applying microbial pesticides and seed dressing agents, to control underground pests, especially thrip pupae in the soil. In addition, to lower insect population from the source, insect-proof nets could be used to prevent pests from immigrating, and mulch plastic film used to stop pests from burrowing in the soil and pupating.
- Apply high-efficacy pesticides with persistent effect during the period from seedling stage to pre-flowering to reduce insect population and thus alleviate control pressures in the picking period.
- Take measures at early stage when damages and threats are still small. Supported with data from pest monitoring and forecasting, pesticides should be applied in critical periods including initial stage of occurrence, egg (nymph) stage and early-instar larval stage, to improve control effect and lessen times and dosage of pesticide application.
- Apply pesticides at proper time. To improve control effect on thrips, pesticides could be applied before 10 o'clock in the morning when flower petals begin to close and it is a time of peak thrip activity. Besides, for the most of the time, thrips hide inside flowers and cause damages, the early-morning application can increase thrip contact with the drugs. And in the picking period, considering that cowpea flowers and pods grow at the same period, biopesticides and chemical pesticides with less than three-day safety interval are preferred for pest control, so that the risk of excessive pesticide residues could be brought down to the minimum.

Dongying City to have four chemical parks expanded

On 13 Nov., the Department of Industry and Information Technology of Shandong Province announced expansion plans of four chemical industrial parks in the Dongying City:

- Dongying Guangli Chemical Industrial Park: Total area will be expanded to 8.12 square kilometres, with north end to Longhai Road, west end to Bohai Road and Zhuahai Road, south end to Qiantangjiang Road and Fuchunjiang Road, and north end to Huangpujiang Road;
- Dongying District Chemical Industrial Park: Total area will be expanded to 10.46 square kilometres, with north end to Tiexi Road, west end to Mawan No.1 Sub-Trunk Canal, south end to Nan'er Road, and north end to Zaozhuang Road;
- Kenli Shengtuo Chemical Industrial Park: Total area will be expanded to 10.75 square kilometres. The to-be-expanded park consists of main area (7.20 square kilometres), Kenli petrochemical area (1.50 square kilometres) and Shenghua new material area (2.05 square kilometres);
- Lijin Binhai New Area Chemical Industrial Park: Total area will be expanded to 19.72 square kilometres. The to-be-expanded park consists of Binhai New Area zone (12.52 square kilometres) and Lihuayi zone (7.20 square kilometres).

Hebei Younongpai plans to build 2,000 t/a lambda-cyhalothrin capacity

On 17 Nov., acceptance of the environmental impact report of Hebei Younongpai Biotechnology Co., Ltd. (Hebei Younongpai)'s 2,500 t/a pyraclostrobin, 2,000 t/a trifloxystrobin, 2,500 t/a prothioconazole, 2,000 t/a lambda-cyhalothrin and intermediates project was announced at relevant website. The company has planned to invest USD306.48 million (RMB2,199.88 million), of which 4.09% or USD12.54 million (RMB90 million) is for environmental protection, in this project. Planned products and design capacity are: 2,500 t/a pyraclostrobin, 2,000 t/a trifloxystrobin, 2,500 t/a prothioconazole, 2,000 t/a lambda-cyhalothrin, 3,000 t/a lambda-cyhalothric acid, 500 t/a 1-(4-chlorophenyl)-1h-pyrazol-3-ol, 2,141.29 t/a 1-chloro-1-chloro-acetyl-cyclopropane and 1,500 t/a 3-phenoxy-benzaldehyde.





Price update

Ex-works prices of major insecticides in China, 8 Nov., 2023

TABLE 11: Ex-works prices of major insecticides in China, 8 Nov., 2023

Product	20231008		20231108	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	380,000	52,932.9	380,000	52,941.01
97% Acephate technical	43,000	5,989.78	43,000	5,990.69
95% Acetamiprid technical	84,300	11,742.75	83,000	11,563.43
95% Azocyclotin technical	220,000	30,645.36	220,000	30,650.06
95% Beta-Cypermethrin technical	127,000	17,690.73	128,200	17,860.63
97% Bifenthrin technical	158,000	22,008.94	154,000	21,455.04
95% Buprofezin technical	65,000	9,054.31	65,000	9,055.7
98% Carbofuran technical	98,000	13,651.12	100,000	13,931.85
98% Chlorfenapyr technical	170,000	23,680.51	170,000	23,684.14
95% Chlorfluazuron technical	380,000	52,932.9	400,000	55,727.38
95% Chlorpyrifos technical	37,000	5,153.99	36,900	5,140.85
94% Cypermethrin technical	54,000	7,522.04	58,000	8,080.47
99% Cyromazine technical	123,000	17,133.54	123,000	17,136.17
98% Deltamethrin technical	385,000	53,629.39	390,000	54,334.2
95% Diafenthiuron technical	112,000	15,601.28	112,000	15,603.67
98% Dimethoate technical	46,600	6,491.25	47,600	6,631.56
70% Emamectin benzoate technical	367,500	51,191.69	367,500	51,199.53
92% Fenvalerate technical	145,000	20,198.08	145,000	20,201.18
95% Fipronil technical	430,000	59,897.76	430,000	59,906.94
98% Hexaflumuron technical	450,000	62,683.7	460,000	64,086.49





97% Imidacloprid technical	93,900	13,080	92,800	12,928.75
98% Isoprocarb technical	45,500	6,338.02	45,500	6,338.99
95% Lambda-cyhalothrin technical	115,000	16,019.17	119,000	16,578.9
90% Malathion technical	35,000	4,875.4	35,000	4,876.15
95% Methidathion technical	90,000	12,536.74	90,000	12,538.66
90% Methomyl SP	68,300	9,513.99	65,000	9,055.7
98% Methomyl technical	78,000	10,865.17	73,900	10,295.63
75% Omethoate technical	52,000	7,243.45	52,000	7,244.56
90% Phoxim technical	39,000	5,432.59	37,000	5,154.78
90% Profenofos technical	68,000	9,472.2	68,000	9,473.65
90% Propargite technical	60,000	8,357.83	60,000	8,359.11
95% Pymetrozine technical	112,500	15,670.92	112,500	15,673.33
95% Pyridaben technical	98,000	13,651.12	100,000	13,931.85
97% Spirodiclofen technical	139,000	19,362.3	139,000	19,365.27
85% Triazophos technical	69,000	9,611.5	69,000	9,612.97

Note: Ex-works price includes VAT.

Source: CCM

Shanghai Port prices of major insecticides in China, 8 Nov., 2023





TABLE 12: Shanghai Port prices of major insecticides in China, 8 Nov, 2023

Product	20231008		20231108	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	380,500	53,002.55	380,500	53,010.67
97% Acephate technical	43,500	6,059.42	43,500	6,060.35
95% Acetamiprid technical	84,800	11,812.39	83,500	11,633.09
95% Azocyclotin technical	220,500	30,715.01	220,500	30,719.72
95% Beta-Cypermethrin technical	127,500	17,760.38	128,700	17,930.29
97% Bifenthrin technical	158,500	22,078.59	154,500	21,524.7
95% Buprofezin technical	65,500	9,123.96	65,500	9,125.36
98% Carbofuran technical	98,500	13,720.77	100,500	14,001.5
98% Chlorfenapyr technical	170,500	23,750.16	170,500	23,753.8
95% Chlorfluazuron technical	380,500	53,002.55	400,500	55,797.04
95% Chlorpyrifos technical	37,500	5,223.64	37,400	5,210.51
94% Cypermethrin technical	54,500	7,591.69	58,500	8,150.13
99% Cyromazine technical	123,500	17,203.19	123,500	17,205.83
98% Deltamethrin technical	385,500	53,699.03	390,500	54,403.86
95% Diafenthiuron technical	112,500	15,670.92	112,500	15,673.33
98% Dimethoate technical	47,100	6,560.89	48,100	6,701.22
70% Emamectin benzoate technical	368,000	51,261.34	368,000	51,269.19
92% Fenvalerate technical	145,500	20,267.73	145,500	20,270.84
95% Fipronil technical	430,500	59,967.4	430,500	59,976.59
98% Hexaflumuron technical	450,500	62,753.35	460,500	64,156.15
97% Imidacloprid technical	94,400	13,149.65	93,300	12,998.41
98% Isoprocarb technical	46,000	6,407.67	46,000	6,408.65





95% Lambda-cyhalothrin technical	115,500	16,088.82	119,500	16,648.56
90% Malathion technical	35,500	4,945.05	35,500	4,945.81
95% Methidathion technical	90,500	12,606.39	90,500	12,608.32
90% Methomyl SP	68,800	9,583.64	65,500	9,125.36
98% Methomyl technical	78,500	10,934.82	74,400	10,365.29
75% Omethoate technical	52,500	7,313.1	52,500	7,314.22
90% Phoxim technical	39,500	5,502.24	37,500	5,224.44
90% Profenofos technical	68,500	9,541.85	68,500	9,543.31
90% Propargite technical	60,500	8,427.47	60,500	8,428.77
95% Pymetrozine technical	113,000	15,740.57	113,000	15,742.99
95% Pyridaben technical	98,500	13,720.77	100,500	14,001.5
97% Spirodiclofen technical	139,500	19,431.95	139,500	19,434.92
85% Triazophos technical	69,500	9,681.15	69,500	9,682.63

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

FOB Shanghai prices of major insecticides in China, 8 Nov., 2023





TABLE 13: FOB Shanghai prices of major insecticides in China, 8 Nov., 2023, USD/t

Product	20231008	20231108
95% Abamectin technical	51,579.94	51,587.84
97% Acephate technical	5,734.17	5,735.05
95% Acetamiprid technical	11,515.3	11,339.46
95% Azocyclotin technical	29,982.38	29,986.98
95% Beta-Cypermethrin technical	16,715.05	16,875.58
97% Bifenthrin technical	20,737.05	20,215.15
95% Buprofezin technical	8,931.39	8,932.76
98% Carbofuran technical	13,401.23	13,676.82
98% Chlorfenapyr technical	23,145.5	23,149.05
95% Chlorfluazuron technical	51,603.55	54,327.85
95% Chlorpyrifos technical	5,128.38	5,115.3
94% Cypermethrin technical	7,153.91	7,685.01
99% Cyromazine technical	16,189.35	16,191.83
98% Deltamethrin technical	50,414.47	51,077.03
95% Diafenthiuron technical	14,757.32	14,759.59
98% Dimethoate technical	6,233.69	6,368.43
70% Emamectin benzoate technical	49,888.93	49,896.58
92% Fenvalerate technical	19,105.46	19,108.39
95% Fipronil technical	58,364.01	58,372.95
98% Hexaflumuron technical	61,091.35	62,458.5
97% Imidacloprid technical	12,822.7	12,674.43
98% Isoprocarb technical	6,093.05	6,093.99
95% Lambda-cyhalothrin technical	15,118.61	15,646.88





90% Malathion technical	4,709.38	4,710.1
95% Methidathion technical	12,339.35	12,341.24
90% Methomyl SP	9,388.42	8,936.18
98% Methomyl technical	11,661.05	11,049.79
75% Omethoate technical	6,944.12	6,945.18
90% Phoxim technical	5,376.9	5,101.95
90% Profenofos technical	9,004.96	9,006.34
90% Propargite technical	8,275.45	8,276.72
95% Pymetrozine technical	14,827.94	14,830.21
95% Pyridaben technical	13,413.21	13,689.05
97% Spirodiclofen technical	18,291.14	18,293.94
85% Triazophos technical	9,519.64	9,521.1

Note: FOB price is calculated mainly based on ex-works price, tax refund, value added tax rate, exchange rate, etc.

Source: CCM



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