

Insecticides China Monthly Report

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Contents

Headline	1
Editor's note	3
Market analysis	4
Insecticide TC price downtrend continues in early July	4
Weak insecticide TC market continues in late July	5
Company and supply	7
Hebei Brilliant to launch 3k/t thiamethoxam TC project	7
Jiangsu Pesticide Research Institute to optimise pesticide production structure in Nanjing base	7
Veyong Bio-chemical plans to expand capacity for emamectin benzoate TC & pymetrozine TC	9
Policy	11
MARA outlines major tasks to prevent and mitigate natural disasters in agriculture	11
Registration	13
153 Insecticide products approved of registration in H1 2023	13
Pest	17
NATESC: overwintering <i>Loxostege sticticalis</i> imagoes occur relatively late this year	17
Trade analysis	18
Export volume of China's insecticide formulations expands over 50% YoY in April–May	18
Q1 2023 witnesses YoY decrease of China's insecticide TC export	20
Brief news	23
Guangdong Greatchem to start specialty chemical & new material base project	23
State Council issues favourable measures for pilot FTZs & FTP	23
Henan to accredit 16 chemical parks	23
Shaanxi Meibang plans to raise fund to build capacity for chlorantraniliprole and others	24
EU extends approval periods of some insecticidal active substances	25
Syngenta launches two new insecticides in India	25
Hainan to accredit two chemical industrial parks	25
UPL SAS launches a new insecticide Argyle in India	25
Zhejiang Yongtai gets listed on London Stock Exchange	25
Locusts attack Kazakhstan in July	26
Chongqing adopts overall green control for crops	26
Price update	27
Ex-works prices of major insecticides in China, 8 July, 2023	27
Shanghai Port prices of major insecticides in China, 8 July, 2023	28
FOB Shanghai prices of major insecticides in China, 8 July, 2023	30





Headline

In early July, prices of some insecticides TC went further south, which include some TC products of organophosphorus insecticides, carbamate insecticides and pyrethroid insecticides. Meanwhile, the price of acetamiprid TC edged up a little.

On a monthly basis, late-July prices of most insecticides TC went down and many dropped slightly. In general, insecticide TC market remained weak.

On 14 July, local government announced that it was to approve the EI report of Hebei Brilliant's 3,000 t/a thiamethoxam technological transformation project. The company has planned to expand its thiamethoxam capacity to 3,000 t/a and phase out its spiroadiclofen capacity through the project.

Jiangsu Pesticide Research Institute has planned to optimise pesticide production structure in its Nanjing base. Production of phenamacril TC, fufenozide TC, cypermethrin TC, beta-cypermethrin TC, lambda-cyhalothrin TC, permethrin TC and existing pesticide formulation products will remain in the base, and production scale for pesticide formulations will be expanded with a new project, planned products of which include multiple phenamacril-based formulations. Phenamacril is a fungicide self-developed by the company.

Veyong Bio-chemical has planned to launch an expansion and technological transformation project to increase its capacity for emamectin benzoate TC to 500 t/a and that for pymetrozine TC to 700 t/a. The two TC products are the company's leading products.

On 4 July, four government departments jointly issued a notice on issuing the work arrangement of disaster prevention and mitigation in agricultural field, which aims at safeguarding the cultivation of autumn grain crops and strengthening preparations for disaster prevention and mitigation. Specifically, the notice outlines three major tasks: intensifying forecast on and early warning of disaster risks, and disaster monitoring and emergency allocation; working out region-specific and disaster-specific prevention measures; beefing up support in terms of policy, materials as well as personnel.

In H1 2023, the Department of Agrochemical Management of MARA altogether approved the registration of 153 insecticide products, which include eight TC products and three TK products. The most popular form is SC and the majority of the products are of low toxicity.

Early July, NATESC forecasted, taking into consideration of weather forecast for July, that key regions that would suffer the attack of *Loxostege sticticalis* in the near future are most parts of Northeast China and eastern Inner Mongolia where there would be larger rainfall than that in the same period in recent years. Meanwhile, efforts should be made to guard against occurrences of migratory *Loxostege sticticalis* that make cross-region or even cross-country trips.

In April–May 2023, China's insecticide formulations were mainly exported to Myanmar, Brazil, Thailand, etc., and the export volume grew by some 57% YoY. Meanwhile, import volume of insecticide formulations to China also increased. China mainly imported these products from Japan, France, Indonesia, etc. in this period, and the import from Japan made up almost a half to the total.

In Q1 2023, China's insecticide TC products were mainly exported to the US, Brazil, India, etc., with an export volume of over 9,000 tonnes (calculated by 100% AI). Top three insecticidal active ingredients were lambda-cyhalothrin, thiamethoxam and imidacloprid.







Editor's note

In July, weak insecticide TC market continued. Prices of the majority of major insecticides TC CCM investigated had small declines; such downtrends were found in insecticides under all the four categories: organophosphorus, carbamate, pyrethroid and nicotinoid.

The weak market has not stopped producers from making new project plans to improve production capacity as well as production structure. For instance, Hebei Brilliant has had a 3,000 t/a thiamethoxam technological transformation project ongoing, Veyong Bio-chemical has planned to expand its capacity for emamectin benzoate TC and pymetrozine TC, and Jiangsu Pesticide Research Institute has planned to optimise pesticide production structure in its Nanjing base.

At present, China is in flood season and in the height of summer, which is also a critical period for the cultivation of autumn grain crops as well as for natural disaster prevention and mitigation. Growing cases of regional and periodic droughts and floods, and more extreme weather events have increased uncertainties for agricultural production. Therefore, MARA has rolled out a notice for the arrangement of the prevention and mitigation of natural disasters in agriculture, which will play a big role in promoting safety in agricultural industry, safeguarding a bumper harvest for the whole year, and supporting economic growth and the stabilisation of overall employment rate and product prices.

The USD/CNY exchange rate in this newsletter is USD1.00 = CNY7.2157 on 3 July, 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

Insecticide TC price downtrend continues in early July

Summary: In early July, prices of some insecticides TC went further south, which include some TC products of organophosphorus insecticides, carbamate insecticides and pyrethroid insecticides. Meanwhile, the price of acetamiprid TC edged up a little.

In general, sluggish demand for insecticides prevailed in early July. Some TC products of organophosphorus insecticides, carbamate insecticides and pyrethroid insecticides still experienced price decline, while some products of nicotinoid insecticides saw slight price increase.

Organophosphorus insecticides: Ex-works prices of phoxim TC and malathion TC were stable, while the prices of chlorpyrifos TC and profenofos TC went down 1.96% and 4.46% MoM, respectively. For chlorpyrifos, most manufacturers had insufficient inventories and made production schedule carefully to fulfil the orders. Early this month, the majority of chlorpyrifos producers supplied the product stably. It is believed that prices of some organophosphorus insecticides TC would remain quite stable, as market demand for such insecticides is limited.

Carbamate insecticides: Ex-works price of isoprocarb TC was stable, while the prices of carbofuran TC and methomyl TC slipped by 1.96% and 4.15% MoM, respectively. Since little improvement in the market has been seen, prices of some carbamate insecticides are expected to decrease in the near future.

Pyrethroid insecticides: Ex-works prices of most pyrethroid insecticides TC decreased; the prices of bifenthrin TC, lambda-cyhalothrin TC and cypermethrin TC went down by 5.88%, 9.23% and 8.82% MoM, respectively. It is expected that prices of pyrethroid insecticides TC may keep falling in the short term due to a glut of these products in the market.

Nicotinoid insecticides: Ex-works of acetamiprid TC increased by 0.74% MoM and that of imidacloprid TC was steady in early July. During this period, the majority of producers supplied nicotinoid insecticides normally to the market. Considering basically unchanged supply-demand relation and little fluctuation of raw material price, ex-works prices of nicotinoid insecticides are expected to remain stable in the short term.



TABLE 1: Ex-works prices of major insecticide TC products in China in early July 2023

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	RMB MoM change
Organophosphorus insecticide	90% Phoxim technical	39,000	5,404.88	0.00%
	95% Chlorpyrifos technical	35,000	4,850.53	-1.96%
	90% Malathion technical	38,000	5,266.29	0.00%
	90% Profenofos technical	75,000	10,394.00	-4.46%
Carbamate insecticide	98% Carbofuran technical	100,000	13,858.67	-1.96%
	98% Methomyl technical	67,000	9,285.31	-4.15%
	98% Isoprocarb technical	45,500	6,305.69	0.00%
Pyrethroid insecticide	97% Bifenthrin technical	160,000	22,173.87	-5.88%
	95% Lambda-cyhalothrin technical	118,000	16,353.23	-9.23%
	94% Cypermethrin technical	62,000	8,592.37	-8.82%
	98% Deltamethrin technical	390,000	54,048.81	0.00%
Nicotinoid insecticide	97% Imidacloprid technical	90,000	12,472.80	0.00%
	95% Acetamiprid technical	82,000	11,364.11	0.74%

Source: CCM

Weak insecticide TC market continues in late July

Summary: On a monthly basis, late-July prices of most insecticides TC went down and many dropped slightly. In general, insecticide TC market remained weak.

In late July, weak insecticide TC market continued; the majority of insecticides TC experienced MoM declines in their prices. Of the major insecticides TC CCM investigated, only phoxim TC, malathion TC, carbofuran TC, isoprocarb TC and deltamethrin TC had a stable price.

Organophosphorus insecticides: Ex-works prices of phoxim TC and malathion TC were stable in late July, while the prices of chlorpyrifos TC and profenofos TC went down 0.28% and 4.46% MoM, respectively.

Carbamate insecticides: Ex-works prices of carbofuran TC and isoprocarb TC were stable, while the price of methomyl TC slipped by 2.90% MoM. There was slack downstream demand for carbamate insecticides in this period.



Pyrethroid insecticides: Ex-works prices of most pyrethroid insecticides TC decreased; the prices of bifenthrin TC, lambda-cyhalothrin TC and cypermethrin TC went down by 5.66%, 4.07% and 7.69% MoM, respectively. But deltamethrin TC price was steady. Domestic demand for pyrethroid insecticides stayed at a low level.

Nicotinoid insecticides: In late July, ex-works prices of acetamiprid TC and imidacloprid TC edged down by 2.17% and 1.76% MoM, respectively. During this period, domestic demand for the two products was relatively weak.

TABLE 2: Ex-works prices of major insecticide TC products in China in late July 2023

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	RMB MoM change
Organophosphorus insecticide	90% Phoxim technical	39,000	5,404.88	0.00%
	95% Chlorpyrifos technical	35,000	4,850.53	-0.28%
	90% Malathion technical	38,000	5,266.29	0.00%
	90% Profenofos technical	75,000	10,394.00	-4.46%
Carbamate insecticide	98% Carbofuran technical	100,000	13,858.67	0.00%
	98% Methomyl technical	67,000	9,285.31	-2.90%
	98% Isoprocarb technical	45,500	6,305.69	0.00%
Pyrethroid insecticide	97% Bifenthrin technical	160,000	22,173.87	-5.66%
	95% Lambda-cyhalothrin technical	118,000	16,353.23	-4.07%
	94% Cypermethrin technical	60,000	8,315.20	-7.69%
	98% Deltamethrin technical	390,000	54,048.81	0.00%
Nicotinoid insecticide	97% Imidacloprid technical	89,400	12,389.65	-1.76%
	95% Acetamiprid technical	81,200	11,253.24	-2.17%

Source: CCM





Company and supply

Hebei Brilliant to launch 3k/t thiamethoxam TC project

Summary: On 14 July, local government announced that it was to approve the EI report of Hebei Brilliant's 3,000 t/a thiamethoxam technological transformation project. The company has planned to expand its thiamethoxam capacity to 3,000 t/a and phase out its spirodiclofen capacity through the project.

On 14 July, the Administrative Examination and Approval Bureau of Shijiazhuang Economic and Technological Development Zone announced that it was to approve the environmental impact (EI) report of Hebei Brilliant Chemical Co., Ltd. (Hebei Brilliant)'s 3,000 t/a thiamethoxam technological transformation project. The company has planned to invest USD3.05 million (RMB22 million) in this project; it had previously filed for recordation for the project at local government.

At present, Hebei Brilliant has production capacity of 1,000 t/a thiamethoxam TC and 300 t/a spirodiclofen TC. These lines were built with the phase I program of the pesticide production lines technological transformation project; the lines passed company-organised environmental protection acceptance check on 28 Dec., 2018. According to the original plan, the phase II program would construct production lines of 500 t/a thiamethoxam 25% WG and 300 t/a spirodiclofen 240g/L SC. Hebei Brilliant dropped the plan for phase II program, however, taking into consideration of national policy, supply of raw and auxiliary materials in surrounding areas, market demand for the two formulation products and its own financing capability. It now comes up with the new project, which will, by making use of the reserved land, expand its thiamethoxam TC capacity to 3,000 t/a, and repurpose the spirodiclofen line to recycle and refine the by-product crude potassium chloride.

Hebei Brilliant, established in Jan. 2006 and now having registered capital of USD7.18 million (RMB51.80 million), is a private company mainly engaged in production of pesticides TC, pesticide-fertilisers and pesticide and pharmaceutical intermediates. Its plant covers an area of 53,000 square meters. Its main products are: thiamethoxam, clothianidin, imidacloprid, acetamiprid and 2-chloro-5-chloromethylthiazole.

Thiamethoxam is a mainstream product in the insecticide market. In China, major thiamethoxam producers include Hubei Benxing Agrochemical Co., Ltd., Guangdong Liwei Chemical Industry Co., Ltd. and Hebei Yetian Agrochemicals Co., Ltd. Besides, companies like Gansu Hanlong Chemical Co., Ltd. and Jiangxi Oushi Chemical Co., Ltd. have revealed plans to set up or increase capacity for thiamethoxam TC. Fiercer competition is expected in this market in the future.

Jiangsu Pesticide Research Institute to optimise pesticide production structure in Nanjing base

Summary: Jiangsu Pesticide Research Institute has planned to optimise pesticide production structure in its Nanjing base. Production of phenamacril TC, fufenozide TC, cypermethrin TC, beta-cypermethrin TC, lambda-cyhalothrin TC, permethrin TC and existing pesticide formulation products will remain in the base, and production scale for pesticide formulations will be expanded with a new project, planned products of which include multiple phenamacril-based formulations. Phenamacril is a fungicide self-developed by the company.





In July, CCM learned from Jiangsu Pesticide Research Institute Co., Ltd. (Jiangsu Pesticide Research Institute) that it had planned to optimise pesticide production structure in its Nanjing base, which is located in the Nanjing Chemical Industrial Park, Nanjing City, Jiangsu Province. It will increase production capacity for pesticide formulations in the base, while eliminate existing 150 t/a imidacloprid TC and 300 t/a tebuconazole TC lines.

Jiangsu Pesticide Research Institute is one of the backbone pesticide enterprises in China. Its business covers the R&D, production and sale of pesticides. Nanjing base is its key production base, playing a leading role in supporting the running of the business. Currently, the base accommodates active pesticide TC capacity of 1,000 t/a phenamacril TC, 125 t/a fufenozide TC, 100 t/a cypermethrin TC, 100 t/a beta-cypermethrin TC, 100 t/a lambda-cyhalothrin TC, 50 t/a permethrin TC, along with the to-be-eliminated lines mentioned above. As regards pesticide formulations, there are production lines of 2,000 t/a phenamacril 25% SC, 2,000 t/a phenamacril-tebuconazole 48% SC, 1,200 t/a fufenozide 10% SC and 1,200 t/a other formulations. It is worth noting that phenamacril, a novel cyanoacrylate fungicide, and fufenozide, a diacylhydrazine insecticide, both are developed by the company.

The decision to remove lines for imidacloprid TC and tebuconazole TC is made based upon the company's current situation, as well as to serve its long-term development strategy. It should be noted that China is not only a big imidacloprid TC producer, but also a major tebuconazole TC producer. There exist quite a large number of pesticide companies that are qualified for the production of the two TC products and equipped with production facilities. Jiangsu Pesticide Research Institute's capacity for the two products is of a small proportion of the total capacity in China, and the proposed elimination will have little impact on the supply in domestic market.

The company's latest effort to enlarge pesticide formulation capacity is embodied in the 6,000 t/a pesticide formulation project. Planned products include multiple phenamacril-based formulations—100 t/a phenamacril-metconazole 30% SC, 100 t/a phenamacril 15% SC, 100 t/a phenamacril-difenoconazole 30% SC, 500 t/a phenamacril-tebuconazole 480g/L SC, 100 t/a prothioconazole-phenamacril 30% SC, 50 t/a phenamacril-propiconazole 15% SL, 50 t/a phenamacril-tebuconazole 15% SL and 100 t/a phenamacril-metalaxyl-M-hymexazol 10% FS. The new project will not affect normal operation of existing lines for pesticide formulations. Obviously, Jiangsu Pesticide Research Institute will dig deeper into commercial production of formulations based on this self-developed active ingredient.

Apart from adjustment to pesticide production structure in existing production base, Jiangsu Pesticide Research has made some other investments to strengthen its competitiveness in the pesticide market in recent years.

It established a new wholly-owned subsidiary Suyan (Lanzhou) Biotechnology Co., Ltd. in Lanzhou City, Gansu Province. The subsidiary will be built into a large pesticide TC and intermediate production base in western China in the future. Supported by resources from Jiangsu Pesticide Research Institute, construction in the subsidiary is currently underway.

The company also finished 100% acquisition of Yancheng Link Weiye Chemical Co., Ltd. (Yancheng Link Weiye) in Feb. 2023. The acquired company is a quality pesticide enterprise that has survived workplace safety and environmental protection rectification and improvement campaign targeting chemical industry in Jiangsu Province. Parts of Yancheng Link Weiye's production lines have been





approved of resumption. This acquisition will further develop Jiangsu Pesticide Research Institute's pesticide business; at the same time, Yancheng Link Weiye will also be benefited and enjoy its positive effects in future development.

Veyong Bio-chemical plans to expand capacity for emamectin benzoate TC & pymetrozine TC

Summary: Veyong Bio-chemical has planned to launch an expansion and technological transformation project to increase its capacity for emamectin benzoate TC to 500 t/a and that for pymetrozine TC to 700 t/a. The two TC products are the company's leading products.

In July, the environmental impact (EI) reports of Hebei Veyong Bio-chemical Co., Ltd. (Veyong Bio-chemical)'s two projects were published by local government. This May, the company decided to build the capacity expansion and technological transformation project for emamectin benzoate TC and pymetrozine TC, which will expand its emamectin benzoate TC capacity from existing 300 t/a to 500 t/a and pymetrozine TC from 500 t/a to 700 t/a. Meanwhile, the company has also planned a 1,000 t/a glufosinate-ammonium and 10,000 t/a glufosinate-p project. For both projects, Veyong Bio-chemical has acquired recordation certificates.

Veyong Bio-chemical, with 60 plus years of experience in pesticide production and business, is now a wholly-owned subsidiary of Limin Group Co., Ltd. Its production plant is located in the Shijiazhuang Circular Chemical Industrial Park, Shijiazhuang City, Hebei Province. Aside from production lines for emamectin benzoate TC and pymetrozine TC, it has active production capacity for glufosinate-ammonium TC, azoxystrobin TC, fosthiazate TC, dinotefuran TC, clothianidin TC, diflubenzuron TC, hexaflumuron TC and a series of pesticide formulations.

Capacity expansion for emamectin benzoate TC and pymetrozine TC, as well as large-scale industrialisation of glufosinate-p TC, are two examples of Veyong Bio-chemical's efforts in scaling up operation. Such moves are typical in China's pesticide industry in recent years as many quality pesticide enterprises have seized up opportunities in the market to develop and grow stronger through methods such as technological upgrade and capacity expansion. Also in this period, the industry got rid of a large quantity of backward and unqualified capacity under the pressures of supply side reform, increasingly higher standards on environmental protection and workplace safety, etc. Overall competitive landscape in China's pesticide industry has been profoundly affected and restructured.

Emamectin benzoate is a non-persistent high-efficacy novel insecticide and semi-synthetic antibiotic with low toxicity and small residue. Synthesised from abamectin TC, it is widely used in the control of pests on vegetables, fruit trees, cotton, etc.; it can, in particular, effectively control *Spodoptera frugiperda*. Currently, in China, emamectin benzoate is not only one of the leading insecticides consumed in domestic market, but also one of the main insecticides exported.

Veyong Bio-chemical is one of the early comers in emamectin benzoate production in China. After years of experience in production and R&D, its core production technique for emamectin benzoate TC becomes advanced and leads in the industry—with simplified, stable processes, and requiring smaller investment in equipment. It is worth noting that its sister company Inner Mongolia New Veyong Bio-chemical Co., Ltd. has built up 500 t/a emamectin benzoate TC lines and put them into operation, with the support of Veyong Bio-chemical's advanced production technique.





Besides the two sister companies, many Chinese pesticide producers have boasted emamectin benzoate TC capacity, and thus China has become a big production country of this product. According to incomplete statistics from China Crop Protection Industry Association (CCPIA), other major domestic emamectin benzoate TC producers include Ningxia Taiyicin Biotech Co., Ltd., Inner Mongolia Jumbo Biochemistry Co., Ltd., Synwill (Nantong) Chemical Co., Ltd., Qingdao KYX Chemical Co., Ltd., Qilu Synva Pharmaceutical Co., Ltd., Syngenta Nantong Crop Protection Co., Ltd., Jingmen Jinxianda Biotechnology Co., Ltd. and Jingbo Agrochemicals Technology Co., Ltd.

Pymetrozine is a mainstream insecticide; it is among the leading insecticides in the consumption both at home and abroad. It is effective in the control of multiple pests on crops and plants including rice, corn, wheat, cotton, cucumber, celery, mulberry tree, peach tree, tobacco, spinach, tea tree, tomato, wild rice stem, cabbage, Hangzhou white chrysanthemum, ornamental flowers and lotus root. No wonder it plays a big role in agricultural production.

China is a major pymetrozine TC supplier and exporter. Currently key domestic pymetrozine TC producers include Jiangsu Kwin Group Co., Ltd., Shenyang Sciencreat Chemicals Co., Ltd., Jiangsu Jiangu Chemical Co., Ltd., ADAMA Anpon (Jiangsu) Ltd., Lanzhou Xinlongtai Biotechnology Co., Ltd., Shandong United Pesticide Industry Co., Ltd. and Veyong Bio-chemical. Once Veyong Bio-chemical finishes pymetrozine capacity expansion, it will gain certain competitive advantage in this market.





Policy

MARA outlines major tasks to prevent and mitigate natural disasters in agriculture

Summary: On 4 July, four government departments jointly issued a notice on issuing the work arrangement of disaster prevention and mitigation in agricultural field, which aims at safeguarding the cultivation of autumn grain crops and strengthening preparations for disaster prevention and mitigation. Specifically, the notice outlines three major tasks: intensifying forecast on and early warning of disaster risks, and disaster monitoring and emergency allocation; working out region-specific and disaster-specific prevention measures; beefing up support in terms of policy, materials as well as personnel.

On 4 July, four government departments, led by the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA), jointly issued a notice on issuing the work arrangement of disaster prevention and mitigation in agricultural field. Currently, China is in flood season and in the height of summer, which is also a critical period for the cultivation of autumn grain crops as well as for natural disaster prevention and mitigation. It is estimated that weather conditions during the flood season are of average or tend away from the average—there are signs for regional and periodic droughts and floods, and the number of extreme weather events will be above average. Uncertainties for agricultural production will increase. Considering this, the four departments put forward the following requirements:

Intensify forecast on and early warning of disaster risks, and disaster monitoring and emergency allocation: Governments at all levels should reinforce emergency services, make continuous predictions and forecasts on damaging weather, and timely disseminate weather forecasts, early warnings and corresponding technical measures to governments at grassroot levels—city, county, town and village. Make full use of the media including the internet, radio and television, and we-media. More frequent emergency allocation should be conducted; weekly allocation, monthly consultation and immediate reporting of major disasters should be carried out. Through these methods, governments could have accurate knowledge of rainfall, soil moisture, the growth of seedlings and the situation of disasters, and therefore aftermaths of disasters could be calculated in a scientific manner and emergency responses could be initiated at right time.

Work out region-specific and disaster-specific prevention measures: Related government departments at all levels should refine their contingency plans for preventing and mitigating natural disasters in agricultural field, based on their local situations. Responsibilities and work should be divided clearly, so that better coordination between departments can be achieved. After disasters strike, emergency services teams should be organised to fight drought or flood, and to rush against time to harvest and/or dry the grains. Water resources departments should make good plans for water storage and retention on the premise that the safety of flood control is ensured; they should also actively reserve counter-drought water. Emergency management departments should prepare for ample material supplies for rescue and disaster relief work, timely activate emergency responses, carry out emergency rescue for flood control and drought relief, and organise disaster relief activities. Meteorological departments should issue weather alerts in a timely manner and carry out weather modification operations in the proper time.

Beef up support in terms of policy, materials as well as personnel: Communication and coordination with finance departments should be intensified; active efforts to gain supports of policy, fund and materials should be increased. When natural disasters take place, actual damages to agricultural production should be known quickly, funds for disaster prevention and mitigation applied for, settlement of





agricultural insurance claims timely conducted, and supports provided to farmers to facilitate post-disaster production and recovery. Disaster prevention and mitigation capacity of emergency services teams should be strengthened; material supply ledgers should be set up, recording machinery and tools for disaster relief at hand, and the equipment should be maintained in advance. Early dispatching of agricultural supplies like fertilisers, pesticides and seeds should be made. Meanwhile, policy popularisation campaigns should be widely launched and technical training sessions held to raise public awareness of the impacts of major agro-meteorological disasters as well as scientific technical measures to escape, prevent and fight against disasters.





Registration

153 Insecticide products approved of registration in H1 2023

Summary: In H1 2023, the Department of Agrochemical Management of MARA altogether approved the registration of 153 insecticide products, which include eight TC products and three TK products. The most popular form is SC and the majority of the products are of low toxicity.

Data show that as of 1 July, the Department of Agrochemical Management of the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) had approved the registration of 153 insecticide products in the first half of this year. Of the approved insecticide products, eight are TC products and three are TK products. The majority of the products are of low toxicity, and top three forms are SC, GR and WG. Top three active ingredients are chlorantraniliprole, abamectin-aminomethyl and dinotefuran. During this period, six registrants had at least four insecticide products approved of registration.

Of the 153 approved insecticide products, 28 products are for export only. All the approved insecticide products of Hebei Veyong Bio-chemical Co., Ltd. are under this category. Besides, three 98% teflubenzuron TC products, from Shandong Weifang Rainbow Chemical Co., Ltd., Zhejiang Nanjiao Chemistry Co., Ltd. and Henan Jinpeng Chemical Co., Ltd., a 97% teflubenzuron TC from Jiangsu Flag Chemical Industry Co., Ltd. and a 97% acetamiprid TC from Shandong United Pesticide Industry Co., Ltd. are registered as export-only, too.

TABLE 3: Insecticide products approved of registration by toxicity in H1 2023

No.	Toxicity	Number
1	Low	112
2	Mild	25
3	Moderate	7
4	Low (TC: highly toxic)	5
5	Moderate (TC: highly toxic)	4
Total		153

Source: Department of Agrochemical Management of MARA



TABLE 4: Insecticide products approved of registration by form in H1 2023

No.	Form	Number
1	SC	83
2	GR	13
3	WG	13
4	TC	8
5	EC	8
6	ME	5
7	OD	5
8	SL	4
9	FS	3
10	TK	3
11	SG	2
12	EW	2
13	ZC	2
14	WP	1
15	SE	1
Total		153

Source: Department of Agrochemical Management of MARA

TABLE 5: Major active ingredients of insecticide products approved of registration in H1 2023

No.	Active ingredient	Number
1	Chlorantraniliprole	47
2	Abamectin-aminomethyl	22
3	Dinotefuran	21
4	Clothianidin	17
5	Lufenuron	12
6	Chlorfenapyr	11

Source: Department of Agrochemical Management of MARA

TABLE 6: Registrants with at least four insecticide products approved of registration in H1 2023

No.	Registrant	Number
1	Hebei Veyong Bio-chemical Co., Ltd.	11
2	Shaanxi Topsen Biological Technology Co., Ltd.	5
3	Jiangxi Bumper Biological Technology Co., Ltd.	4
4	Guangdong Kefeng Bio-Technology Co., Ltd.	4
5	Anhui Kewu Biotechnology Co., Ltd.	4
6	Hailir Pesticides and Chemicals Group Co., Ltd.	4

Source: Department of Agrochemical Management of MARA



TABLE 7: Insecticide TC products approved of registration in H1 2023

No.	Registrant	Active ingredient & content
1	Qingdao Hengning Biotechnology Co., Ltd.	96% Chlorantraniliprole
2	Shandong Weifang Rainbow Chemical Co., Ltd.	98% Teflubenzuron
3	Jiangsu Flag Chemical Industry Co., Ltd.	97% Teflubenzuron
4	Zhejiang Nanjiao Chemistry Co., Ltd.	98% Teflubenzuron
5	Hebei Brilliant Chemical Co., Ltd.	95.5% Chlorantraniliprole
6	Inner Mongolia Laike Crop Protection Co., Ltd.	98% Chlorfenapyr
7	Shandong United Pesticide Industry Co., Ltd.	97% Acetamiprid
8	Henan Jinpeng Chemical Co., Ltd.	98% Teflubenzuron

Source: Department of Agrochemical Management of MARA



Pest

NATESC: overwintering *Loxostege sticticalis* imagoes occur relatively late this year

Summary: Early July, NATESC forecasted, taking into consideration of weather forecast for July, that key regions that would suffer the attack of *Loxostege sticticalis* in the near future are most parts of Northeast China and eastern Inner Mongolia where there would be larger rainfall than that in the same period in recent years. Meanwhile, efforts should be made to guard against occurrences of migratory *Loxostege sticticalis* that make cross-region or even cross-country trips.

Early July, the Pest Forecasting Division of National Agro-Tech Extension and Service Centre (NATESC) revealed that overwintering *Loxostege sticticalis* imagoes had first appeared relatively late in Northwest China, North China and Northeast China this year; the dates for first appearance surveyed in various regions differed greatly. Generally, the peak for adult emergence fell on mid-June, and population in most fields is relatively small at present. First-generation larvae have been found only in some local areas in Shanxi, Shaanxi and eastern Inner Mongolia. Taking into account of weather forecast for July, the Division projected that key regions that would suffer the attack of *Loxostege sticticalis* in the near future are most parts of Northeast China and eastern Inner Mongolia where there would be larger rainfall than that in the same period in recent years and thus would provide suitable habitats and ample host crops. Moreover, efforts should also be made to guard against occurrences of migratory *Loxostege sticticalis* that trip across regions or even countries.

According to NATESC, overwintering *Loxostege sticticalis* imagoes were first seen from mid-April to early-June across ten provinces in Northwest China, North China and Northeast China this year, and the time gap between first appearance periods in different regions can be over one month at maximum. In core wintering areas in western Inner Mongolia, Ningxia, northern Shanxi, northern Shaanxi and northern Hebei, first appearance periods fell between mid-April to early-May, while in Liaoning, Jilin, northern Heilongjiang and Beijing, the periods fell between late-May to early-June. Compared with situations in the same period last year, first appearance in Ningxia and Shanxi happened 4 days earlier, while in other regions that happened 4 days to 30 days later. Compared with general situations during the same period in recent years, first appearance in western Inner Mongolia, northern Ningxia, northern Shanxi and northern Hebei happened 5 days to 11 days earlier, while in the most parts of other regions that happened 1 day to 26 days later.

As of 1 July, first-generation larvae had occurred in 8,733.33 ha of fields, down 50.1% YoY and 56.2% compared with the average in recent five years. Occurring areas in Ningxia, Shaanxi and Inner Mongolia accounted for 61.1%, 4.8% and 34.1%, respectively, to the total.

Weather forecast for July made by National Meteorological Centre said that there would be larger rainfall in regions including eastern Inner Mongolia, Heilongjiang, Jilin, Liaoning, and southwestern Xinjiang than that in the same period in recent years, which would provide favourable conditions for the growth of nectariferous plants, oviposition host plants and host plants favoured by larvae. That would then invite the immigration of *Loxostege sticticalis* and succeedingly the oviposition as well as attacks by the larvae. For most parts of the rest regions in northern China, smaller rainfall than usual is expected. In central and western Inner Mongolia, western Hebei, Shanxi, central and northern Shaanxi, northern Gansu, Ningxia, northeastern Xinjiang, some 20% to 50% less rainfall is estimated, which is unfavourable for the occurrence of *Loxostege sticticalis*. However, there still are possibilities for *Loxostege sticticalis* population in these regions migrating to other places suitable for infestation.





Trade analysis

Export volume of China's insecticide formulations expands over 50% YoY in April–May

Summary: In April–May 2023, China's insecticide formulations were mainly exported to Myanmar, Brazil, Thailand, etc., and the export volume grew by some 57% YoY. Meanwhile, import volume of insecticide formulations to China also increased. China mainly imported these products from Japan, France, Indonesia, etc. in this period, and the import from Japan made up almost a half to the total.

According to statistics from General Administration of Customs of China (China Customs), in April–May 2023, China exported 56,536.76 tonnes (actual volume, the same hereafter) of insecticide formulation products with a total export value of USD278.33 million. Major export destinations were Myanmar, Brazil, Thailand, Nigeria, etc. Compared with the export volume achieved in April–May 2022, this year's figure saw a 57.25% jump, up by some 20,583 tonnes. As regards insecticide formulation imports, in the same period, China imported 1,665.40 tonnes of insecticide formulation products with a value totalling USD35.99 million. Major import origins were Japan, France, Indonesia, etc. The import volume expanded 28.05% YoY.

In terms of export, average export price during April–May 2023 went down by 28.07% YoY to USD4.92/kg, mainly affected by weak insecticide market this year. Ample inventories in the market dragged the price down continuously. China's insecticide formulations were exported to at least 135 countries and regions in the two months. The export to Myanmar, the largest destination, soared over 300% YoY to 8,436 tonnes, which is 3,852 tonnes more than the volume to the No.2 destination Brazil.

In terms of import, import price of insecticide formulations averaged at USD21.61/kg during April–May 2023, down some 15% YoY. The insecticide formulations were mainly imported from 20 countries and regions. Japan was the largest import origin, from which insecticide formulation import volume accounted for almost a half of the total in this period and was over two times more than the volume made during April–May 2022.

TABLE 8: April and May exports of insecticide formulations from China, 2023 vs 2022

Month	2023		2022	
	Volume, kg	Average price, USD/kg	Volume, kg	Average price, USD/kg
April	27,202,566	4.95	12,145,771	6.69
May	29,334,189	4.90	23,807,679	6.91
Total	56,536,755	4.92	35,953,450	6.84

Note:1. The data were updated to 7 July, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs





TABLE 9: Top 10 destinations of insecticide formulations exported from China, April–May 2023 vs April–May 2022

No.	April–May 2023			April–May 2022		
	Destination	Volume, tonne	Share	Destination	Volume, tonne	Share
1	Myanmar	8,436	14.92%	Brazil	4,060	11.29%
2	Brazil	4,584	8.11%	Indonesia	2,223	6.18%
3	Thailand	2,679	4.74%	Vietnam	2,205	6.13%
4	Nigeria	2,359	4.17%	Myanmar	1,944	5.41%
5	Ghana	2,260	4.00%	Bangladesh	1,886	5.25%
6	Pakistan	1,804	3.19%	Thailand	1,860	5.17%
7	Indonesia	1,777	3.14%	Pakistan	1,763	4.90%
8	Cote d'Ivoire	1,685	2.98%	Nigeria	1,161	3.23%
9	Bangladesh	1,593	2.82%	Cambodia	1,115	3.10%
10	Vietnam	1,496	2.65%	Tanzania	1,095	3.05%

Note:1. The data were updated to 7 July, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs

TABLE 10: April and May imports of insecticide formulations to China, 2023 vs 2022

Month	2023		2022	
	Volume, kg	Average price, USD/kg	Volume, kg	Average price, USD/kg
April	893,659	23.21	692,325	30.89
May	771,740	19.76	608,226	19.22
Total	1,665,399	21.61	1,300,551	25.43

Note:1. The data were updated to 7 July, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs





TABLE 11: Top 10 origins of insecticide formulations imported to China, April–May 2023 vs April–May 2022

No.	April–May 2023			April–May 2022		
	Origin	Volume, tonne	Share	Origin	Volume, tonne	Share
1	Japan	781	46.87%	Indonesia	331	25.44%
2	France	216	12.98%	France	263	20.25%
3	Indonesia	144	8.65%	Japan	238	18.26%
4	Singapore	143	8.61%	The US	153	11.78%
5	India	111	6.65%	Singapore	111	8.53%
6	Vietnam	93	5.56%	South Korea	81	6.23%
7	The US	53	3.15%	Israel	38	2.96%
8	South Korea	44	2.64%	Vietnam	31	2.38%
9	Switzerland	40	2.40%	Thailand	26	1.97%
10	Thailand	27	1.60%	Austria	11	0.83%

Note:1. The data were updated to 7 July, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs

Q1 2023 witnesses YoY decrease of China's insecticide TC export

Summary: In Q1 2023, China's insecticide TC products were mainly exported to the US, Brazil, India, etc., with an export volume of over 9,000 tonnes (calculated by 100% AI). Top three insecticidal active ingredients were lambda-cyhalothrin, thiamethoxam and imidacloprid.

According to the import and export data from Tranalysis, in Q1 2023, China altogether exported 9,206.83 tonnes (100% AI volume, the same hereafter) of insecticide TC products, down 42.23% YoY. The decrease mainly came from slack overseas demand and weak insecticide market; there was ample insecticide supply in the market. In this period, TC products based on active ingredients lambda-cyhalothrin, thiamethoxam and imidacloprid were the most popular; the US was the largest export destination; main insecticide exporters were Youth Chemical Co., Ltd. (Jiangsu Youth), Jiangsu Flag Chemical Industry Co., Ltd., Hengyang Jiangrun Chemical Co., Ltd., etc.

In Q1 2023, insecticide TC products exported from China were mainly based on 23 active ingredients. Export volume of lambda-cyhalothrin TC products ranked the first, which experienced YoY increase. However, six of the top ten active ingredients had contracted export volume compared with the same period last year. Chlorpyrifos, in particular, saw the volume plummet by 82.08% YoY. During this period, Jiangsu Youth exported the most lambda-cyhalothrin TC products, and a big destination of the company's lambda-cyhalothrin TC products was the US.





Insecticide TC products from China were exported to 34 countries and regions in Q1 2023; top three export destinations were the US, Brazil and India. The US alone accounted for over 26% of the total export; main insecticide products exported to the country were thiamethoxam TC, lambda-cyhalothrin TC, imidacloprid TC, etc.

TABLE 12: Export volume of insecticides TC from China, Q1 2023 vs Q1 2022

Month	Export volume, Q1 2023, tonne	Export volume, Q1 2022, tonne
Jan.	4,304.761	5,340.024
Feb.	3,492.428	4,424.488
March	1,409.643	6,173.483
Total	9,206.832	15,937.995

Note: All the data here are calculated by 100% AI volume.

Source: Tranalysis

TABLE 13: Export volume of insecticides TC from China by active ingredient, Q1 2023 vs Q1 2022

No.	Active ingredient	Export volume, Q1 2023, tonne	Export volume, Q1 2022, tonne
1	Lambda-cyhalothrin	1,545.616	1,123.713
2	Thiamethoxam	1,235.965	1,493.694
3	Imidacloprid	1,042.129	2,444.580
4	Clothianidin	823.329	402.673
5	Cartap	735.784	1,625.888
6	Acephate	726.938	1,022.051
7	Acetamiprid	617.164	543.017
8	Chlorpyrifos	425.165	2,372.953
9	Pymetrozine	363.057	300.674
10	Dimethoate	355.800	872.276
	Others	1,335.885	3,736.477
	Total	9,206.832	15,937.995

Note: All the data here are calculated by 100% AI volume.





Source:Tranalysis

TABLE 14: Export volume of insecticides TC from China by destination, Q1 2023

No.	Destination	Export volume, tonne
1	The US	2,403.141
2	Brazil	1,542.845
3	India	1,274.128
4	Belgium	840.000
5	Pakistan	565.170
6	Japan	559.784
7	Russia	476.289
8	Turkiye	453.909
9	Vietnam	274.404
10	South Korea	240.251
	Others	576.910
	Total	9,206.832

Note:All the data here are calculated by 100% AI volume.

Source:Tranalysis

TABLE 15: Export volume of insecticides TC from major exporters in China, Q1 2023

No.	Exporter	Export volume, tonne
1	Youth Chemical Co., Ltd.	849.431
2	Jiangsu Flag Chemical Industry Co., Ltd.	648.760
3	Hengyang Jiangrun Chemical Co., Ltd.	630.500
4	Hailir Pesticides and Chemicals Group Co., Ltd.	450.606
5	Jiangsu Youjia Crop Protection Co., Ltd.	358.448
6	Shandong Keyuan Chemical Co., Ltd.	326.894

Note:All the data here are calculated by 100% AI volume.

Source:Tranalysis





Brief news

Guangdong Greatchem to start specialty chemical & new material base project

On 4 July, Yingde Greatchem Chemicals Co., Ltd. (Guangdong Greatchem) announced that it planned to establish a new wholly-owned subsidiary Hubei Shengkang Chemical Co., Ltd. (the name is subject to change), and to sign the Cooperation Agreement on the Construction of Specialty Chemical & New Material Base with Administration Committee of Yichang High-tech Industrial Development Zone. The project, with planned total investment of USD346.47 million (RMB2,500 million), will construct a specialty chemical & new material base in the Tianjiahe Area of Baiyang Industrial Park, Yichang City, Hubei Province, in the next seven to ten years. The phase I program, with USD69.29 million (RMB500 million), involves building 25,000 t/a production lines for special-purpose new materials in 24 months. Total investment for the project is subject to change though.

Guangdong Greatchem will take advantage of Yichang City's good foundation in phosphorus-based, chlorine-based and fluorine-based basic chemical industry, and build production capacity for key intermediates and critical materials which are widely used in industries such as pharmaceutical, new material and crop protection.

State Council issues favourable measures for pilot FTZs & FTP

In late June, the State Council of the People's Republic of China issued the Several Measures for Aligning with International High Standards and Promoting Institutional Opening-up in Eligible Pilot Free Trade Zones and the Hainan Free Trade Port. According to the document, pilot programs will be conducted in eligible pilot free trade zones (FTZs) in five provinces and municipalities—Shanghai, Guangdong, Tianjin, Fujian and Beijing, as well as in the Hainan free trade port (FTP).

The document makes clear time criteria for customs clearance of air express and general cargos in the pilot regions, in order to facilitate faster clearance for foreign trade enterprises—air express cargos go through customs clearance normally within 6 hours after arrival, provided that the necessary quarantine procedures are completed in accordance with China's rules on customs supervision; for general cargos that have submitted all the information required for customs clearance, the customs should try their best to release them within 48 hours after arrival.

Pilot regions will be encouraged to import re-manufacturing goods in key industries. Qualified re-manufacturing goods are not subject to related measures that prohibit or restrict the importation of used goods. This move will increase the import of re-manufacturing goods, reduce production costs, expand consumer choice and better satisfy domestic demand.

Henan to accredit 16 chemical parks

On 10 July, the Department of Industry and Information Technology of Henan Province released the first-batch list of chemical parks it was to approve. Sixteen parks were on the list, and it was believed that they had clear industry positioning, good foundations in chemical industry and strong growth momentum, and drove the development of surrounding areas. These parks can accommodate chemical projects and currently account for 36% of the total approved industry clusters with proper conditions for the development of chemical industry in Henan. The accreditation is an important step for the province to foster large-scale chemical parks and intensive development





of such parks.

TABLE 16: List of chemical parks to be approved in Henan Province (first batch)

No.	Location	Name of chemical park	Area, ha
1	Pingdingshan City	Pingdingshan High-tech Industry Development Zone (Chemical Park)	90.57
2		Pingdingshan Shilong District Advanced Manufacturing Development Zone (Chemical Park)	240.85
3		Baofeng County Coal Circular Economy Industrial Park	300.78
4		Pingdingshan Nylon New Material Development Zone	1,031.67
5	Anyang City	Anyang New Chemical Industrial Park (Tongye Area)	601.47
6	Jiaozuo City	Mengzhou High-tech Industry Development Zone (Chemical Park)	216.62
7	Puyang City	Puyang Industrial Park (Chemical Park)	1,190.82
8		Puyang Economic and Technological Development Zone (Chemical Park)	616.67
9	Xuchang City	Xiangcheng County Advanced Manufacturing Development Zone (Chemical Park)	853.60
10	Luohe City	Wuyang Economic and Technological Development Zone (Chemical Park)	689.89
11		Luoxi Industry Cluster	70.21
12	Sanmenxia City	Yima City Advanced Manufacturing Development Zone (Chemical Park)	471.91
13	Nanyang City	Tongbai County Advanced Manufacturing Development Zone (Chemical Park)	575.19
14		Nanyang Guanzhuang Advanced Manufacturing Development Zone (Chemical Park)	704.13
15	Jiyuan Demonstration Area	Jiyuan Economic and Technological Development Zone (Chemical Park)	387.95
16		Jiyuan Wulongkou Chemical Park	330.81

Source: Department of Industry and Information Technology of Henan Province

Shaanxi Meibang plans to raise fund to build capacity for chlorantraniliprole and others

On 18 July, Shaanxi Meibang Pharmaceutical Group Co., Ltd. (Shaanxi Meibang) announced it had applied for issuing convertible corporate bonds to unspecified objects to raise funds no more than USD73.45 million (RMB530 million). According to its plan, the raised funds, after the issuance cost deducted, will be used to build 6,000 t/a pesticide TC production line project, which involves the construction of synthesis workshops for high-efficacy and low-risk insecticides and fungicide—chlorfenapyr, chlorantraniliprole and pyraclostrobin, along with supporting facilities. Total investment for this project is planned at USD73.58 million (RMB530.92 million). Once completed, it will add capacity of 2,000 t/a chlorfenapyr TC, 2,000 t/a chlorantraniliprole TC and 2,000 t/a pyraclostrobin TC to the company. Shaanxi





Meibang projects full operation of these lines could generate an annual revenue of USD236.26 million (RMB1,704.78 million). Static payback period (after-tax) is estimated at 5.84 years and after-tax rate of return at 28.92%.

EU extends approval periods of some insecticidal active substances

In July, the European Union (EU), in accordance with the Regulation (EC) No 1107/2009 concerning plant protection products, extended the approval period of the active substances pyrethrins to 15 June, 2026, and that of flonicamid to 30 Nov., 2026.

Syngenta launches two new insecticides in India

In July, Syngenta India Private Limited launched in India two plant protection solutions: Incipio and Simodis. Both products are based on Syngenta's PLINAZOLIN® technology, which is a new active ingredient that protects plant health with excellent performance on a wide range of pests, exhibits good tank-mixing performance, and can be mixed with some fungicides when necessary.

Incipio is a novel insecticide product to control stem borers and leaf rollers on rice crops. Simodis is an insecticide product targeting butterflies, sucking insects represented by moths, and Lepidopterans; it is applicable on rice, cotton and vegetables, and particularly effective on chili pepper, aubergine, cotton, peanut, soybean, red bean, etc.

Hainan to accredit two chemical industrial parks

On 24 July, the Hainan Provincial Department of Industry and Information Technology announced that it was to recognise the Yangpu Economic Development Zone Chemical Zone and the Chemical Cluster of Dongfang Lingang Industrial Park as accredited chemical industrial parks, based upon on-spot appraisal results provided by the third-party—China National Petroleum & Chemical Planning Institute, that was invited by the department for the evaluation.

This chemical industrial park accreditation aims to further regulate the construction of chemical parks, improve green and safe development of such parks and facilitate high quality development of chemical industry, especially petrochemical industry, in the province.

UPL SAS launches a new insecticide Argyle in India

Recently, UPL Sustainable Agri Solutions Limited (UPL SAS) introduced a new insecticide Argyle (acetamiprid 25%-bifenthrin 25% WG) to the Indian market.

Argyle is a cost-efficient, sustainable and innovative solution with an eco-friendly form, applicable on soybean and cotton for the prevention and control of a wide variety of pests, including whiteflies, aphids, jassids, semilooper and girdle beetle. The WG product dissolves quickly in water, which could improve leaf surface coverage and efficacy. Besides, its dual mode of action can help prevent the development of pesticide resistance in pests.

Zhejiang Yongtai gets listed on London Stock Exchange

On 11 July, Zhejiang Yongtai Technology Co., Ltd. (Zhejiang Yongtai) successfully issued Global Depository Receipts (GDRs) and was





officially listed on the London Stock Exchange. Already a Shenzhen Stock Exchange-listed company, Zhejiang Yongtai now becomes the first to achieve dual listing in Shenzhen and London.

Some 7.43 million GDRs were issued at a price of USD9.41 per GDR, which raised approximately USD70 million for the company. The fund will mainly be used to facilitate Zhejiang Yongtai's global industrial chain layout in its core businesses, including new energy materials, pharmaceuticals and plant protection products. Besides, the fund will enhance the company's capabilities in R&D, manufacturing and sales, help the company repay corporate debts, and supplement working capital.

Locusts attack Kazakhstan in July

In July, northern parts of Kazakhstan were attacked by locusts. In Kostanay region alone, over 500 ha of land was covered by locusts, which put farmers to suffer great losses as their crops were ruined. To deal with the locust crisis, local government had set up operation command to kill the pests.

Locust plagues are frequent across the world, but the ones that could be regarded as catastrophes take place at intervals, on average of 200 to 300 years.

Chongqing adopts overall green control for crops

In mid-July, Chongqing Municipality revealed that it had adopted overall green control technologies for crops to tackle with aggravated challenges posed by pests and diseases caused by forced convection and heavy rainfall. Special attentions have been paid to the two major migratory pests on rice—rice leaf roller and rice planthopper, and also to the diseases rice blast and sheath blight.

To win the battle against pests and safeguard the crops, the Chongqing government has co-ordinated efforts to push ahead with green control and pesticide use reduction, focusing on the promotion of green control techniques covering ecological control, physical and chemical lure and control, biological control, pesticide use in a scientific manner; controlling pests through other insects or via pheromone lures will be further explored and popularised. While controlling major pests and diseases, the use frequency of chemical pesticides will be cut down as much as possible to ensure better safety of the crops.





Price update

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

TABLE 17: Ex-works prices of major insecticides in China, 8 July, 2023

Product	20230608		20230708	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	395,000	55,661.24	388,000	53,771.64
97% Acephate technical	47,500	6,693.44	43,000	5,959.23
95% Acetamiprid technical	81,400	11,470.44	82,000	11,364.11
95% Azocyclotin technical	220,000	31,001.2	220,000	30,489.07
95% Beta-Cypermethrin technical	128,200	18,065.24	128,200	17,766.81
97% Bifenthrin technical	170,000	23,955.47	160,000	22,173.87
95% Buprofezin technical	70,000	9,864.02	70,000	9,701.07
98% Carbofuran technical	102,000	14,373.28	100,000	13,858.67
98% Chlorfenapyr technical	155,000	21,841.75	155,000	21,480.94
95% Chlorfluazuron technical	400,000	56,365.81	400,000	55,434.68
95% Chlorpyrifos technical	35,700	5,030.65	35,000	4,850.53
94% Cypermethrin technical	68,000	9,582.19	62,000	8,592.37
99% Cyromazine technical	132,000	18,600.72	132,000	18,293.44
98% Deltamethrin technical	390,000	54,956.67	390,000	54,048.81
95% Diafenthiuron technical	115,000	16,205.17	112,000	15,521.71
98% Dimethoate technical	47,600	6,707.53	47,600	6,596.73
70% Emamectin benzoate technical	346,500	48,826.89	359,100	49,766.48
92% Fenvalerate technical	140,000	19,728.03	135,000	18,709.2
95% Fipronil technical	470,000	66,229.83	430,000	59,592.28
98% Hexaflumuron technical	460,000	64,820.69	460,000	63,749.88





97% Imidacloprid technical	90,000	12,682.31	90,000	12,472.8
98% Isoprocarb technical	45,500	6,411.61	45,500	6,305.69
95% Lambda-cyhalothrin technical	130,000	18,318.89	118,000	16,353.23
90% Malathion technical	38,000	5,354.75	38,000	5,266.29
95% Methidathion technical	90,000	12,682.31	90,000	12,472.8
Methomyl 90% SP	65,000	9,159.44	59,000	8,176.61
98% Methomyl technical	69,900	9,849.93	67,000	9,285.31
75% Omethoate technical	52,000	7,327.56	52,000	7,206.51
90% Phoxim technical	39,000	5,495.67	39,000	5,404.88
90% Profenofos technical	78,500	11,061.79	75,000	10,394
90% Propargite technical	60,000	8,454.87	60,000	8,315.2
95% Pymetrozine technical	119,500	16,839.29	114,000	15,798.88
95% Pyridaben technical	102,000	14,373.28	102,000	14,135.84
97% Spirodiclofen technical	155,000	21,841.75	150,000	20,788
85% Triazophos technical	69,000	9,723.1	69,000	9,562.48

Note: Ex-works price includes VAT.

Source: CCM

Shanghai Port prices of major insecticides in China, 8 July, 2023





TABLE 18: Shanghai Port prices of major insecticides in China, 8 July, 2023

Product	20230608		20230708	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	395,500	55,731.7	388,500	53,840.93
97% Acephate technical	48,000	6,763.9	43,500	6,028.52
95% Acetamiprid technical	81,900	11,540.9	82,500	11,433.4
95% Azocyclotin technical	220,500	31,071.66	220,500	30,558.37
95% Beta-Cypermethrin technical	128,700	18,135.7	128,700	17,836.11
97% Bifenthrin technical	170,500	24,025.93	160,500	22,243.16
95% Buprofezin technical	70,500	9,934.47	70,500	9,770.36
98% Carbofuran technical	102,500	14,443.74	100,500	13,927.96
98% Chlorfenapyr technical	155,500	21,912.21	155,500	21,550.23
95% Chlorfluazuron technical	400,500	56,436.27	400,500	55,503.97
95% Chlorpyrifos technical	36,200	5,101.11	35,500	4,919.83
94% Cypermethrin technical	68,500	9,652.65	62,500	8,661.67
99% Cyromazine technical	132,500	18,671.18	132,500	18,362.74
98% Deltamethrin technical	390,500	55,027.13	390,500	54,118.1
95% Diafenthiuron technical	115,500	16,275.63	112,500	15,591
98% Dimethoate technical	48,100	6,777.99	48,100	6,666.02
70% Emamectin benzoate technical	347,000	48,897.34	359,600	49,835.77
92% Fenvalerate technical	140,500	19,798.49	135,500	18,778.5
95% Fipronil technical	470,500	66,300.29	430,500	59,661.57
98% Hexaflumuron technical	460,500	64,891.14	460,500	63,819.17
97% Imidacloprid technical	90,500	12,752.77	90,500	12,542.1
98% Isoprocarb technical	46,000	6,482.07	46,000	6,374.99





95% Lambda-cyhalothrin technical	130,500	18,389.35	118,500	16,422.52
90% Malathion technical	38,500	5,425.21	38,500	5,335.59
95% Methidathion technical	90,500	12,752.77	90,500	12,542.1
Methomyl 90% SP	65,500	9,229.9	59,500	8,245.91
98% Methomyl technical	70,400	9,920.38	67,500	9,354.6
75% Omethoate technical	52,500	7,398.01	52,500	7,275.8
90% Phoxim technical	39,500	5,566.12	39,500	5,474.17
90% Profenofos technical	79,000	11,132.25	75,500	10,463.3
90% Propargite technical	60,500	8,525.33	60,500	8,384.49
95% Pymetrozine technical	120,000	16,909.74	114,500	15,868.18
95% Pyridaben technical	102,500	14,443.74	102,500	14,205.14
97% Spirodiclofen technical	155,500	21,912.21	150,500	20,857.3
85% Triazophos technical	69,500	9,793.56	69,500	9,631.78

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 July, 2023





TABLE 19: FOB Shanghai prices of major insecticides in China, 8 July, 2023, USD/t

Product	20230608	20230708
95% Abamectin technical	54,238.54	52,397.24
97% Acephate technical	6,407.8	5,704.92
95% Acetamiprid technical	11,248.27	11,144
95% Azocyclotin technical	30,330.52	29,829.47
95% Beta-Cypermethrin technical	17,068.91	16,786.94
97% Bifenthrin technical	22,571.08	20,892.44
95% Buprofezin technical	9,730.11	9,569.37
98% Carbofuran technical	14,110.17	13,604.98
98% Chlorfenapyr technical	21,348.29	20,995.62
95% Chlorfluazuron technical	54,950.25	54,042.5
95% Chlorpyrifos technical	5,005.65	4,826.43
94% Cypermethrin technical	9,113.23	8,171.86
99% Cyromazine technical	17,575.67	17,285.32
98% Deltamethrin technical	51,662.19	50,808.75
95% Diafenthiuron technical	15,328.55	14,682.06
98% Dimethoate technical	6,441.39	6,334.98
70% Emamectin benzoate technical	47,584.31	48,500
92% Fenvalerate technical	18,660.85	17,697.13
95% Fipronil technical	64,533.94	58,066.35
98% Hexaflumuron technical	63,174.05	62,130.44
97% Imidacloprid technical	12,432.83	12,227.45
98% Isoprocarb technical	6,163.8	6,061.98
95% Lambda-cyhalothrin technical	17,289.05	15,433.9





90% Malathion technical	5,172.41	5,086.97
95% Methidathion technical	12,482.62	12,276.42
Methomyl 90% SP	9,038.55	8,068.69
98% Methomyl technical	10,571.43	9,965.46
75% Omethoate technical	7,024.75	6,908.7
90% Phoxim technical	5,439.34	5,349.48
90% Profenofos technical	10,516.14	9,881.29
90% Propargite technical	8,371.54	8,233.24
95% Pymetrozine technical	15,933.45	14,949.01
95% Pyridaben technical	14,122.79	13,889.49
97% Spirodiclofen technical	20,633.43	19,637.97
85% Triazophos technical	9,630.18	9,471.09

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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