

Production and Market of Cyproconazole in China (Interim report)

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Methodology

The report is drafted by diverse methods as follows:

- Desk research

The sources of desk research are various, including published magazines, journals, government websites and statistics, industrial statistics, association seminars as well as information from the Internet. A lot of work has gone into the compilation and analysis of the obtained information.

- Internet

CCM visited government websites and contacted with players in the domestic agrochemical industry through B2B websites and software as well as obtained registration information on the internet.

- Data processing and presentation

The data collected and compiled are sourced from:

- CCM's database
- Published articles in periodicals, magazines, journals and third-party databases
- Statistics from governments and international institutes
- Telephone interviews with domestic producers, joint ventures, service suppliers and governments
- Third-party data providers
- Comments from industrial experts
- Professional databases from other sources
- Information from the internet

The data from various sources have been combined and cross-checked to make this report as precise and scientific as possible. Throughout the process, a series of internal discussions were held in order to analyse the data and draw the conclusions.

Table null-1 USD/CNY exchange rate, Jan. 2016–Nov. 2021

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
2016	6.5527	6.5311	6.5064	6.4762	6.5315	6.5874	6.6774	6.6474	6.6715	6.7442	6.8375	6.9182	6.6425
2017	6.8918	6.8713	6.8932	6.8845	6.8827	6.8019	6.7772	6.7148	6.5909	6.6493	6.6300	6.6067	6.7662
2018	6.5079	6.3045	6.3352	6.2764	6.3670	6.4078	6.6157	6.8293	6.8347	6.8957	6.9670	6.9431	6.6070
2019	6.8482	6.7081	6.6957	6.7193	6.7344	6.8896	6.8716	6.8938	7.0883	7.0726	7.0437	7.0262	6.8826
2020	6.9614	6.9249	6.9811	7.0771	7.0690	7.1315	7.0710	6.9980	6.8498	6.7796	6.7050	6.5921	6.9284
2021	6.5408	6.4623	6.4754	6.5584	6.4895	6.3572	6.4709	6.4660	6.4680	6.4604	6.4192	-	-

Source: The People's Bank of China

1 Supply of cyproconazole TC in China

Cyproconazole, developed by Sandoz AG, is a triazole fungicide and a sterol demethylation inhibitor. With wide spectrum and excellent compatibility, cyproconazole has become a market leader in grain and soybean fungicides. In 2014, the global sales volume of cyproconazole surpassed that of epoxiconazole, tebuconazole and difenoconazole, and became the leader of triazole fungicides in the global market. At present, cyproconazole is widely registered in the US, the UK, Australia, New Zealand, Japan and South America.

In China however, it has not been mass-produced and promoted, though some manufacturers began to register cyproconazole products in 2012. Demand for cyproconazole technical in China has been quite small. According to CCM's investigation, only a small amount is used domestically as it is mostly replaced by propiconazole in use. Therefore, cyproconazole technical products produced in China are mainly for export. By the end of the first half of 2021, the total production of cyproconazole in China is about 300t/a-500t/a.

1.1 Manufacturers of cyproconazole TC

As of December 2021, there are four major manufacturers in active production of cyproconazole technical in China; they all have registered cyproconazole technical products. And in total, 10 registrants have registration certificates of cyproconazole technical within validity period in China. Among them, some occasionally make sample production or get involved in resale, such as Huai'an Glory Chemical Co., Ltd. and Jiangsu Agrochem Laboratory Co., Ltd.

Table 1.1-1 Registrations of cyproconazole technical in China, as of Dec., 2021

No.	Registration number	Content	Registrant
1	PD20161262	95%	Jiangsu Fengdeng Crop Science Co., Ltd.
2	PD20182818	95%	Zhejiang Udragon Bioscience Co., Ltd.
3	PD20180948	95%	Xiangshui Zhongshan Bioscience Co., Ltd.
4	PD20172222	95%	Jiangsu Chengyang Crop Science Co., Ltd.
5	PD20172201	95%	Rudong Zhongyi Chemical Co., Ltd.
6	PD20172122	95%	Jiangsu Agrochem Laboratory Co., Ltd.
7	PD20172064	98%	Jiangsu Sevencontinent Green Chemical Co., Ltd.
8	PD20172001	95%	Huanglong Biotechnology (Liaoning) Co., Ltd.
9	PD20171937	95%	Jiangsu Sword Agrochemicals Co., Ltd.
10	PD20171864	95%	Huai'an Glory Chemical Co., Ltd.

Source: The Institute for the Control of Agrochemicals, Ministry of Agriculture of the People's Republic of China (ICAMA)

Table 1.1-2 Situation of all cyproconazole technical manufacturers in China

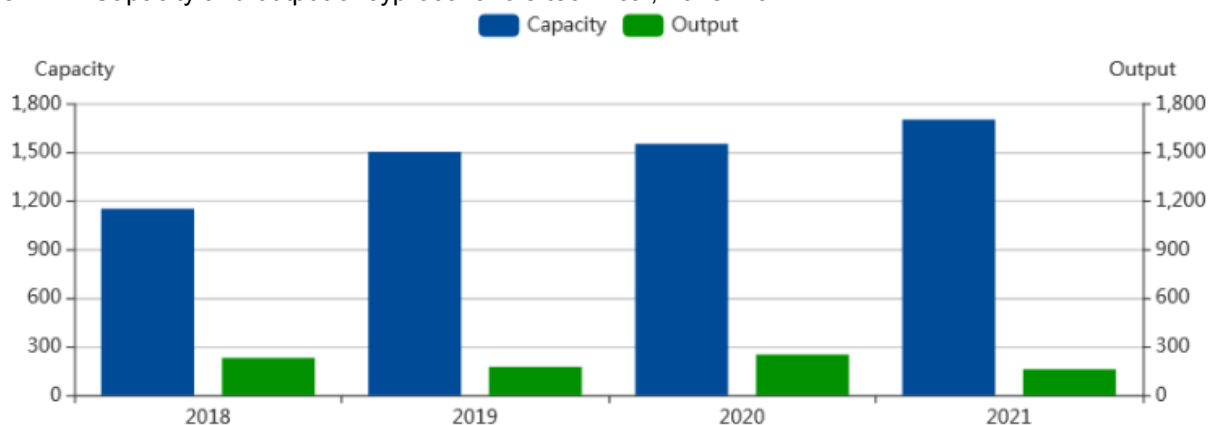
No.	Producer	Abbreviation	Location	Establishment date	Status,2021
1	Zhejiang Udragon Bioscience Co., Ltd.	Zhejiang Udragon	Zhejiang	September, 1978	Active
2	Jiangsu Sword Agrochemicals Co., Ltd.	Jiangsu Sword	Jiangsu	January, 2001	Active
3	Jiangsu Sevencontinent Green Chemical Co., Ltd.	Jiangsu Sevencontinent	Jiangsu	May, 1998	Active
4	Rudong Zhongyi Chemical Co., Ltd.	Rudong Zhongyi	Jiangsu	December, 1993	Active

Source: CCM

1.2 Capacity and output of cyproconazole TC, 2018–H1 2021

The capacity of cyproconazole technical in China expanded to 1,700 t/a as of August 2021, up from the 1,550 t/a during 2018–2020. And in 2018 and 2020, annual output of cyproconazole technical was some 485 tonnes and 450 tonnes, respectively. In 2019, however, the output was 315 tonnes, affected by sluggish global demand, as well as the major explosion in a chemical park Jiangsu Province on March 2019. The explosion prompted local government to completely halt production in agrochemical enterprises for rectification.

Figure 1.2-1 Capacity and output of cyproconazole technical, 2018–2021



Note: Figures in 2021 are estimated.

Source: CCM

Table 1.2-1 Capacity and output of cyproconazole TC, 2018–H1 2021

No.	Producer	H1 2021		2020		2019		2018	
		Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne
1	Jiangsu Sevencontinent Green Chemical Co., Ltd.	600	170	600	280	600	210	600	380
2	Jiangsu Sword Agrochemicals Co., Ltd.	500	80	500	70	500	50	500	50
3	Zhejiang Udragon Bioscience Co., Ltd.	200	10	50	10	50	5	50	5
4	Rudong Zhongyi Chemical Co., Ltd.	200	0	200	40	200	0	200	0
Others		200	50	200	50	200	50	200	50
Total		1,700	310	1,550	450	1,550	315	1,550	485

Source: CCM

Jiangsu Sevencontinent Green Chemical Co., Ltd. has two production bases: Jiangsu Chengyang Crop Science Co., Ltd. (Jiangsu Chengyang) and Jiangsu Fengdeng Crop Science Co., Ltd. (Jiangsu Fengdeng). In 2018, Jiangsu Chengyang completed expansion of a cyproconazole production line, increasing the capacity from 200 t/a to 600 t/a, and began commissioning production in October.

Previously in 2014, Jiangsu Sevencontinent planned to build 800 t/a cyproconazole capacity. However, its actual capacity is 600 t/a now, according to latest investigation.

In 2021, Zhejiang Udragon Bioscience Co., Ltd. announced a technological reform project of pesticide technical production, in which the capacity of cyproconazole was expanded from 50 t/a to 200 t/a.

2 Demand abroad

2.1 Export of cyproconazole, 2018–Aug. 2021

- By month

From 2019 to Aug. 2021, the export volume of cyproconazole technical (converted to 100% AI) from China has seen growth. But the export volume decreased in 2019, compared with that in 2018 because of serious safety production inspection resulting in low output in China in 2019. Currently, the export volume of cyproconazole technical is on the rise in China. And 2021 will see increase in China's export volume of cyproconazole technical, compared with that in 2020.

Table 2.1-1 China's exports of cyproconazole technical by month, Jan. 2020–Aug. 2021

Month	2020					2021				
	95% Tech.		98% Tech.		Share in total volume (based on 100% AI)	95% Tech.		98% Tech.		Share in total volume (based on 100% AI)
	Volume (tonne)	Unit price (USD/kg)	Share in total volume (based on 100% AI)	Volume (tonne)		Volume (tonne)	Unit price (USD/kg)	Volume (tonne)	Unit price (USD/kg)	
Jan.	46.225	72.26	0.000	/	9.82%	16.300	54.11	50.055	100.68	18.31%
Feb.	14.000	67.62	0.000	/	2.97%	21.785	56.75	0.000	/	5.87%
March	75.950	71.29	0.000	/	16.13%	15.500	54.74	0.000	/	4.18%
April	62.450	69.14	0.000	/	13.27%	115.120	62.16	0.000	/	31.03%
May	38.775	66.81	5.000	69.53	9.33%	48.725	61.72	0.000	/	13.13%
June	27.900	72.81	0.000	/	5.93%	12.525	49.57	0.000	/	3.38%
July	10.250	69.67	0.000	/	2.18%	85.575	50.46	0.000	/	23.07%
Aug.	20.625	60.05	0.000	/	4.38%	3.800	50.32	0.000	/	1.02%
Sept.	20.200	65.59	12.000	56.80	6.92%	-	-	-	-	-
Oct.	36.300	83.16	0.000	/	7.71%	-	-	-	-	-
Nov.	67.275	67.01	0.000	/	14.29%	-	-	-	-	-
Dec.	33.300	56.45	0.000	/	7.07%	-	-	-	-	-
Total	453.250	68.49	17.000	63.17	100.00%	319.330	54.98	50.055	100.68	100.00%

Note: Some export records are missing in the export data of 2020 and 2021 as some countries did not release.
Source: Tranalysis

Table 2.1-2 China's exports of cyproconazole technical by month, 2019

Month	95% Tech.		98% Tech.		Share in total volume (based on 100% AI)
	Volume (tonne)	Unit price (USD/kg)	Volume (tonne)	Unit price (USD/kg)	
Jan.	6.125	47.23	3.000	44.27	3.48%
Feb.	21.900	49.13	0.000	/	8.26%
March	57.550	45.43	1.500	47.50	22.30%
April	11.025	46.88	0.000	/	4.16%
May	24.625	47.24	0.000	/	9.29%
June	39.800	58.95	0.000	/	15.02%
July	47.790	72.75	0.000	/	18.03%
Aug.	9.650	78.46	0.000	/	3.64%
Sept.	13.325	73.37	0.000	/	5.03%
Oct.	4.650	73.51	0.025	78.48	1.76%
Nov.	12.935	73.54	0.700	73.60	5.15%
Dec.	10.225	80.20	0.000	/	3.86%
Total	259.600	62.22	5.225	60.96	100.00%

Source: Tranalysis

Table 2.1-3 China's exports of cyproconazole technical by month, 2018

Month	95% Tech.		98% Tech.		Share in total volume (based on 100% AI)
	Volume (tonne)	Unit price (USD/kg)	Volume (tonne)	Unit price (USD/kg)	
Jan.	31.750	50.85	17.575	51.95	10.16%
Feb.	14.500	55.64	4.900	51.39	3.98%
March	46.650	52.39	1.800	50.60	9.88%
April	11.425	54.56	1.500	60.79	2.64%
May	33.655	52.85	5.500	57.02	8.01%
June	86.650	53.21	8.000	53.26	19.33%
July	53.250	51.55	4.250	55.91	11.74%
Aug.	41.550	51.95	0.000	/	8.46%
Sept.	44.550	50.13	0.000	/	9.07%
Oct.	16.604	51.13	0.000	/	3.38%
Nov.	19.600	51.84	0.000	/	3.99%
Dec.	45.925	50.08	0.000	/	9.35%
Total	446.109	52.18	43.525	54.42	100.00%

Source: Tranalysis

- By destination

In recent years, main export countries and regions of cyproconazole technical from China include Russia, Argentina, Paraguay, Brazil, India and Uruguay.

Table 2.1-4 Major destinations of exported cyproconazole technical in China, Jan.–Aug. 2021

No.	Country and region	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Brazil	122.000	50.005	46.79%
2	Russia	102.535	0.000	27.64%
3	Paraguay	56.900	0.000	15.34%
4	Argentina	20.400	0.000	5.50%
5	India	7.295	0.000	1.97%
6	Costa Rica	6.000	0.000	1.62%
7	Vietnam	2.300	0.050	0.63%
8	Uzbekistan	1.050	0.000	0.28%
9	Turkey	0.850	0.000	0.23%
Total		319.330	50.055	100.00%

Source: Tranalysis

Table 2.1-5 Major destinations of exported cyproconazole technical in China, 2020

No.	Country and region	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Russia	142.275	17.000	33.95%
2	Argentina	90.100	0.000	19.14%
3	Paraguay	47.500	0.000	10.09%
4	India	38.775	0.000	8.24%
5	Brazil	35.000	0.000	7.43%
6	Ukraine	14.525	0.000	3.09%
7	Uruguay	14.350	0.000	3.05%
8	Poland	13.075	0.000	2.78%
9	Spain	10.000	0.000	2.12%
10	New Zealand	8.000	0.000	1.70%
Others		39.650	0.000	8.42%
Total		453.250	17.000	100.00%

Source: Tranalysis

Table 2.1-6 Major destinations of exported cyproconazole technical in China, 2019

No.	Country and region	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Argentina	72.640	0.000	27.41%
2	Uruguay	42.150	3.000	17.07%
3	Paraguay	37.300	0.000	14.08%
4	India	36.000	0.000	13.59%
5	Russia	19.400	0.000	7.32%
6	Japan	11.550	0.000	4.36%
7	Belgium	6.000	1.500	2.85%
8	New Zealand	5.000	0.025	1.90%
9	Poland	4.750	0.000	1.79%
10	Australia	4.325	0.000	1.63%
Others		20.485	0.700	8.00%
Total		259.600	5.225	100.00%

Source: Tranalysis

Table 2.1-7 Major export destinations of cyproconazole technical from China, 2018

No.	Country and region	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Uruguay	83.500	8.000	18.69%
2	Argentina	85.125	0.000	17.34%
3	India	81.000	0.000	16.50%
4	Paraguay	61.205	11.250	14.83%
5	Russia	56.804	0.000	11.57%
6	Germany	19.800	0.000	4.03%
7	Poland	7.025	8.575	3.23%
8	Belgium	6.550	9.000	3.22%
9	Japan	10.550	0.400	2.23%
10	New Zealand	7.000	0.000	1.43%
Others		27.550	6.300	6.93%
Total		446.109	43.525	100.00%

Source: Tranalysis

- By exporter

Table 2.1-8 Major active exporters of cyproconazole in China, Jan. 2021–Aug. 2021

No.	Exporter	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Ningbo Youngor International Trade & Transportation Co., Ltd.	48.000	0.000	12.94%
2	At Agro Co., Ltd.	36.000	0.000	9.70%
3	Jiangsu Sevencontinent Green Chemical Co., Ltd.	22.655	0.000	6.11%
4	Qingdao Rainbow Chemical Co., Ltd.	15.925	0.000	4.29%
5	Bioagriland HK Crop Care Co., Ltd.	12.500	0.000	3.37%
6	Jiangsu Sword Agrochemicals Co., Ltd.	12.000	0.000	3.23%
7	Jiangsu Trustchem Co., Ltd.	12.000	0.000	3.23%
8	Shandong Weifang Rainbow Chemical Co., Ltd.	7.350	0.000	1.98%
9	UPL Limited	6.000	0.000	1.62%
10	Zhejiang Hengdian Import and Export Co., Ltd.	6.000	0.000	1.62%
	Others	140.900	50.055	51.90%
	Total	319.330	50.055	100.00%

Source: Tranalysis

Table 2.1-9 Major active exporters of cyproconazole in China, 2020

No.	Exporter	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Jiangsu Sevencontinent Green Chemical Co., Ltd.	79.500	12.000	19.52%
2	Qingdao Rainbow Chemical Co., Ltd.	61.575	0.000	13.08%
3	Shandong Weifang Rainbow Chemical Co., Ltd.	55.400	5.000	12.86%
4	Jiangsu Trustchem Co., Ltd.	33.200	0.000	7.05%
5	Ningbo Agroskyrun Trading Co., Ltd.	30.400	0.000	6.46%
6	Yangzhou Pioneer Chemical Co., Ltd.	17.000	0.000	3.61%
7	Rudong Zhongyi Chemical Co., Ltd.	16.625	0.000	3.53%
8	Agrobeats Tech Co., Ltd.	13.875	0.000	2.95%
9	Sinochem Agro Co., Ltd.	12.100	0.000	2.57%
10	Xingfa (Hongkong) Imp. & Exp. Ltd.	9.000	0.000	1.91%
Others		124.575	0.000	26.46%
Total		453.250	17.000	100.00%

Source: Tranalysis

Table 2.1-10 Major active exporters of cyproconazole in China, 2019

No.	Exporter	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Jiangsu Sevencontinent Green Chemical Co., Ltd.	77.260	1.500	29.74%
2	Qingdao Rainbow Chemical Co., Ltd.	36.365	0.000	13.72%
3	Shanghai E-tong Chemical Co., Ltd.	20.450	0.000	7.72%
4	Nanjing Bioagriland Crop Care Co., Ltd.	18.875	0.000	7.12%
5	HighChem (Nanjing) Company Limited	12.600	0.000	4.75%
6	Ningbo Jiangdong Agroskyrun Trading Co., Ltd.	11.000	0.000	4.15%
7	Ningbo Tide Import and Export Co., Ltd.	10.000	0.000	3.77%
8	Nanjing Taikenuo International Trade Co., Ltd.	8.000	0.000	3.02%
9	Shenzhen Honbor Industrial Co., Ltd.	7.000	0.000	2.64%
10	Shanghai MIO Chemical Co., Ltd.	6.000	0.000	2.26%
Others		52.050	3.725	21.09%
Total		259.600	5.225	100.00%

Source: Tranalysis

Table 2.1-11 China's exports of cyproconazole by exporter, 2018

No.	Exporter	Quantity (tonne)		Share in total volume(based on 100% AI)
		95% Tech.	98% Tech.	
1	Jiangsu Sevencontinent Green Chemical Co., Ltd.	85.130	26.275	22.86%
2	Qingdao Rainbow Chemical Co., Ltd.	63.925	0.000	13.02%
3	China Jiangsu International Economic Technical Cooperation Group Co., Ltd.	48.555	0.000	9.89%
4	Zhejiang Changxing Zhongshan Import and Export Co., Ltd.	30.800	0.000	6.27%
5	Ningbo Jiangdong Agroskyrun Trading Co., Ltd.	14.000	13.250	5.64%
6	Zhejiang Chemicals Import & Export Corporation	27.100	0.000	5.52%
7	High Hope Zhongtian Corporation	25.200	0.000	5.13%
8	Jiangsu Xinnuo Chemicals Co., Ltd.	14.525	0.000	2.96%
9	Shanghai Bingxun International Trade Co., Ltd.	13.000	0.000	2.65%
10	Zhangjiagang Yagro Chemical Co., Ltd.	11.800	0.000	2.40%
	Others	112.074	4.000	23.67%
	Total	446.109	43.525	100.00%

Source: Tranalysis

2.2 China's position in global cyproconazole supply

China is one of key suppliers of cyproconazole products in the world; about 30%–40% cyproconazole products (both technical and formulation, converted into 100% AI) come from China every year. Those cyproconazole products are mainly sold to Russia, Brazil, Paraguay, Argentina and India.

- China's cyproconazole in Russia

In Russia, China is the largest supplier of cyproconazole products during 2020–2021. More than 95% cyproconazole products in Russia are from China. Cyproconazole products sold to Russia from China are 95% and 98% cyproconazole technical. Besides China, the US and Germany also supply cyproconazole products to Russia, but their supply volume is quite small compared with that from China.

- China's cyproconazole in Brazil

China enjoys relatively small share of cyproconazole business in Brazil market, while countries like Belgium, the UK and the Netherlands hold larger market share. During 2020–2021, Belgium takes the largest market share and the UK comes the second. In addition, Germany also supplies cyproconazole products to Brazil, yet the volume is quite small.

- China's cyproconazole in Paraguay

In Paraguay, China enjoys large market share in cyproconazole business, taking up more than 98% market share based on sales value during 2020–2021. Only small market share is left for other countries, such as the US and Germany. Furthermore, China's sales value in cyproconazole business is still expanding currently.

- China's cyproconazole in Argentina

In Argentina, China is a key supplier of cyproconazole products, providing over 60% of such products. Germany, Switzerland and the US are also suppliers of cyproconazole products in Argentina at present.

- China's cyproconazole in India

During 2020–2021, China is one of key suppliers of cyproconazole products in India. Currently, China accounts for over 35% market share based on sales value in the country. The majority of market share is held by Germany. Meanwhile, the UK, Switzerland and the US also export some cyproconazole products to India.

3 Price analysis of cyproconazole TC in China

3.1 Monthly price analysis, 2018–Aug. 2021

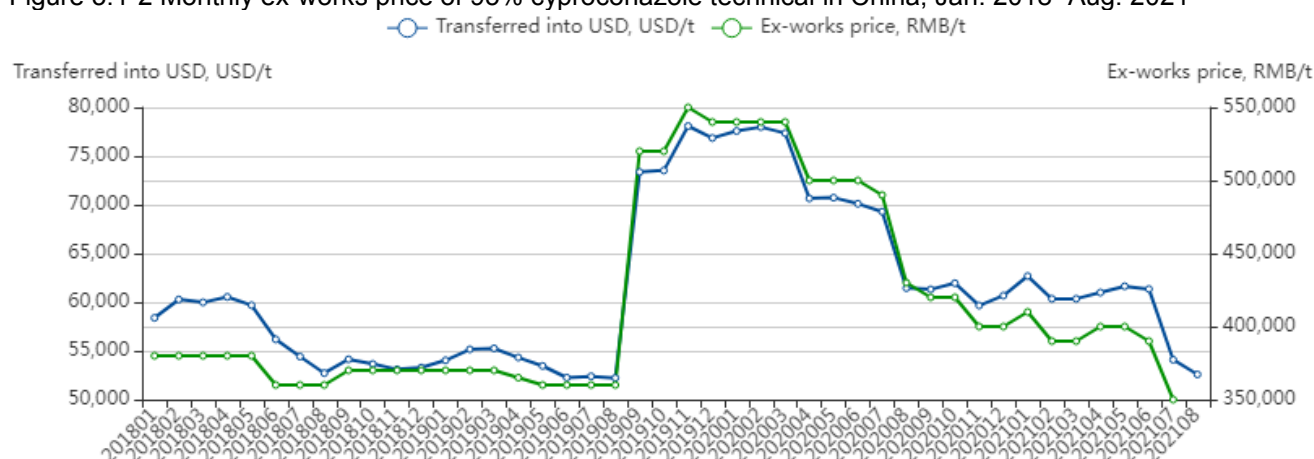
The annual average ex-works price of cyproconazole technical witnessed uptrend in China during 2018–2020. But in fact, monthly ex-works price of cyproconazole technical in China has gone down since early 2020. And the downtrend continued during Jan.–Aug. 2021.

Figure 3.1-1 Annual average ex-works price of cyproconazole technical in China, 2018–2020



Note: The prices in the table are transferred from the ex-works RMB price of 95% cyproconazole technical into USD price.
Source: CCM

Figure 3.1-2 Monthly ex-works price of 95% cyproconazole technical in China, Jan. 2018–Aug. 2021



Source: CCM

Generally speaking, driving factors for the jump in ex-works price of cyproconazole technical in China are environmental protection and safety production inspections and production restriction rules in winter. Unforeseeable COVID-19 situation may also impact cyproconazole technical production and that will also be a driving factor for price increase. However, small demand at home and abroad restricts price hike in China. Chinese producers of cyproconazole products have to face intense competition with foreign suppliers to earn market share. For them, a high-priced quotation is unwise.

From Jan. 2018 to Aug. 2019, the ex-works price of cyproconazole technical witnessed relatively small fluctuations, from about USD50,000/t to about USD61,000/t. In Sept. 2019, the price soared greatly, due to a tight supply resulted from environmental protection and safety production inspections. In Q4 2019, the price grew further up under tight supply caused by production restriction in winter. It stayed high in Q1 2020 when COVID-19 outbreak called a halt to cyproconazole production and the supply kept tight.

The price gradually reduced starting from April 2020 and fell back to less than USD55,000/t in July 2021. According to domestic cyproconazole technical manufacturers, make-to-order production of cyproconazole technical is a common practice and stock is rare.

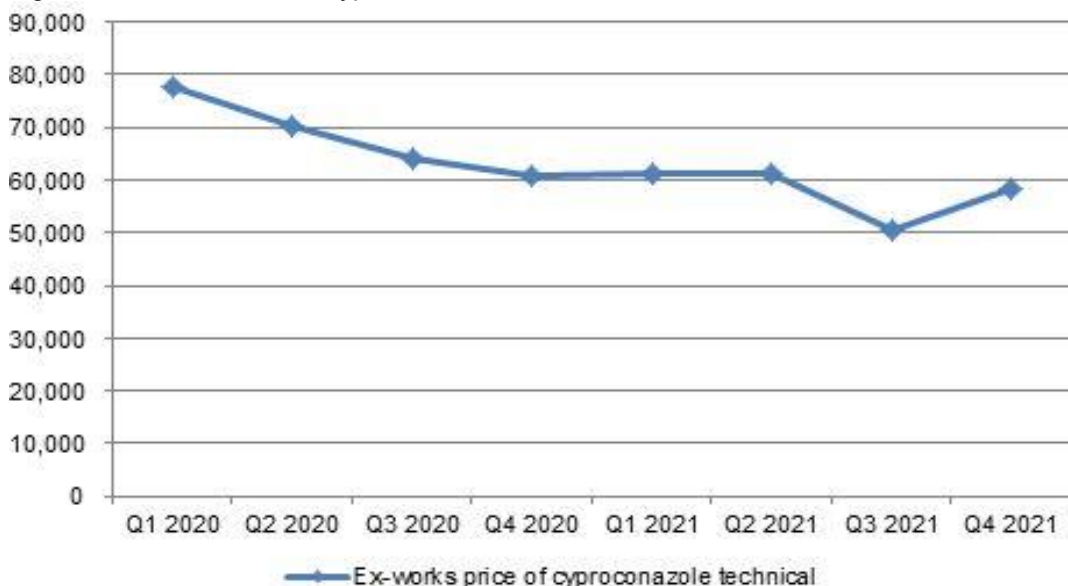
3.2 Price trend

The ex-works price of cyproconazole technical in China saw downtrend during Q1 2020–Q3 2021, but rebounded a little in Q4 2021. It's estimated the ex-works price of cyproconazole technical will see continuous increases in the coming three months. And tight supply of the product and increasing demand will drive up the price in 2022.

Since Sept. 2021, power rationing has led to tight supply of cyproconazole technical in China, bringing up the price of cyproconazole. In late 2021, environmental protection inspections were carried out in China, which has restricted the production of cyproconazole technical. Furthermore, regular winter production suspension orders were released, which make lead to tighter supply in the near future. Thus, it's estimated the ex-works price of cyproconazole technical will see continuous increases in the coming three months.

Notably, in recent years, the Chinese government has paid greater attention to environmental protection, safety production and energy saving. These factors will further negatively affect cyproconazole production, and periodic tight supply of cyproconazole technical will be seen. As to demand, it is expected to continue the uptrend experienced in 2019–2021. Therefore, it is believed that the price will continue to go up in the next year.

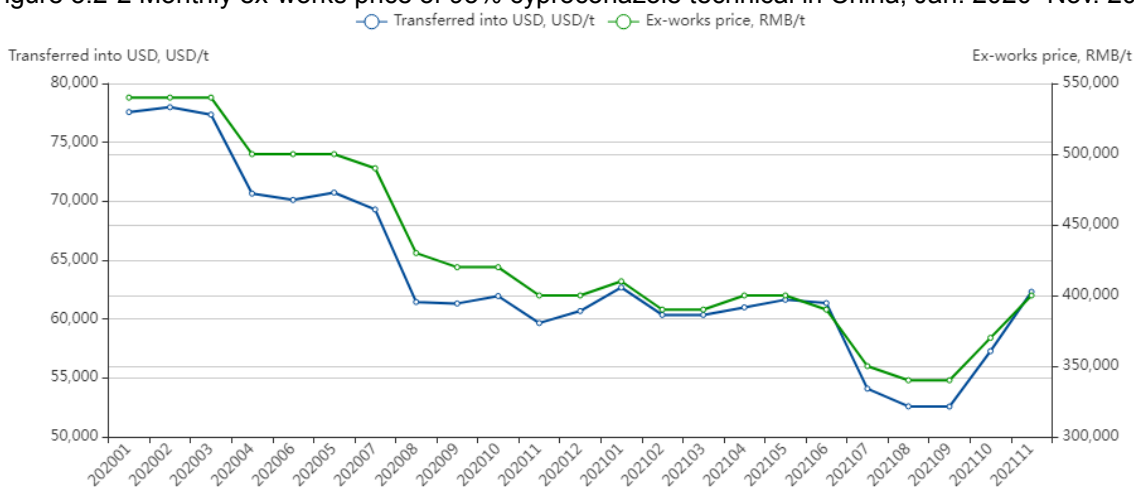
Figure 3.2-1 Price trend of cyproconazole technical in China, Q1 2020–Q4 2021



Note: The price is based on average ex-works price transferred into USD.

Source: CCM

Figure 3.2-2 Monthly ex-works price of 95% cyproconazole technical in China, Jan. 2020–Nov. 2021



Source: CCM

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