

Production and Export of Clethodim in China

The Seventh Edition

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1. Introduction and methodology

Production and Export of Clethodim in China is CCM's report on production situation of clethodim industry in China finished in Oct. 2023. This intelligent report attaches importance to following parts:

- Registration of clethodim (including technical and formulations) in China;
- Production (capacity & output) and producers of clethodim in China, 2018–H1 2023;
- Export of clethodim in China by volume and price, 2018–H1 2023.

The report is drafted by diverse methods as follows:

- Desk research

The sources of desk research are various, including published magazines, journals, government statistics, industrial statistics, customs statistics, association seminars as well as information from the Internet.

- Internet

CCM 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
- China Customs
- 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.

- Abbreviation

- CAGR: Compound annual growth rate
- TC: Technical material
- TK: Technical concentrate
- ME: Micro emulsion
- EC: Emulsifiable concentrate
- OD: Oil dispersion

- Unit

- t: tonne
- t/a: tonne/annual
- USD: currency unit in the US
- RMB: currency unit in China, also named yuan
- tonne: equals to metric ton in this report

2. Executive summary

As of XXX, XXX XXX, there were XXX valid registrations of clethodim from XXX companies in China, including XXX for TC, XXX for TK, XXX for single formulations and XXX for mixed formulations, respectively.

In XXX XXX, there were XXX clethodim technical producers in China and XXX of them were active. The capacity increased from XXX t/a in XXX to XXX t/a in XXX, with a CAGR of XXX; meanwhile, the output reached XXX tonnes in XXX XXX and XXX tonnes in XXX, improving from that in XXX (XXX tonnes).

With unstably growing demand, the total export volume (converted into 100% AI) of clethodim technical and formulations in China went through ups and downs in XXX–XXX. China exported XXX tonnes of this product in XXX, yet it slipped largely in H1 2023, equating to only XXX of the XXX total.

4. What's in this report

Note: Key data/information in this sample page is hidden, while in the report it is not.

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1 Registration of clethodim in China

As of XXX, XXX, there are XXX valid registrations of clethodim from XXX companies in China, including XXX for single formulations and XXX for mixed formulations, according to the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA). Among them, XXX are for TC and XXX are for TK (with one for export only). Generally, clethodim formulations are applied to fields of soybean, rapeseed, tobacco, potato, mung bean and red bean against gramineous weeds.

As for the types of clethodim formulations, only three (EC, OD and ME) have been registered. Among the registrations of clethodim's single formulations in China, XXX were for EC and only XXX for OD. In terms of mixed formulations, XXX registrations were for OD, XXX for EC and XXX for ME.

Table 1-1 Registrations of clethodim technical in China, as of 18 Sept., 2023

No.	Registrant	Registration number	Type of formulation	Content	Expiry date
1	XXX	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX
3	XXX	XXX	XXX	XXX	XXX
4	XXX	XXX	XXX	XXX	XXX
5	XXX	XXX	XXX	XXX	XXX
6	XXX	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	XXX

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

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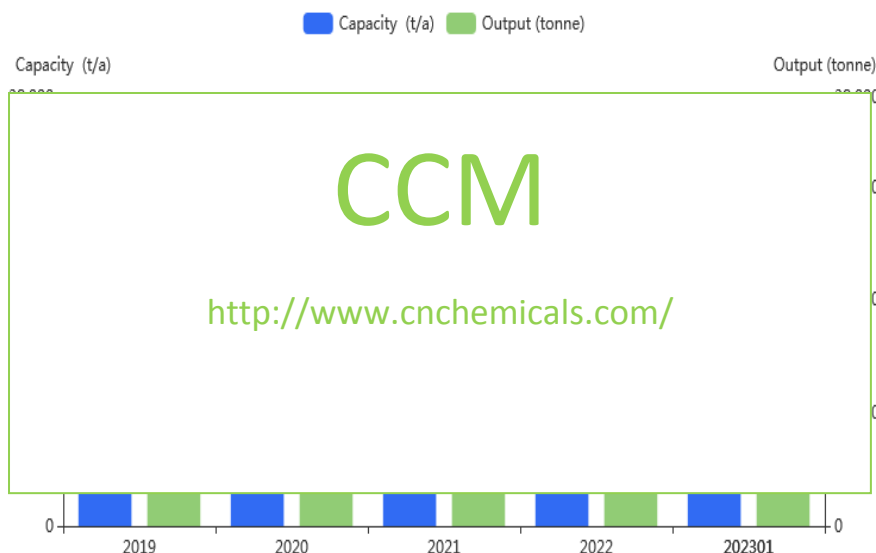
2 Supply of clethodim in China, 2018–H1 2023

2.1 Overview of production

On the whole, the production capacity and output of clethodim technical in China maintain an uptrend from XXX to XXX, yet being stable in XXX. The capacity increases from XXX t/a in XXX to XXX t/a in XXX, with a CAGR of XXX, while the output increases from XXX tonnes in XXX to XXX tonnes in XXX, with a CAGR of XXX.

In the first half of XXX, there was no new capacity of clethodim technical in China. The existing producers reduced their operation rates and the output fell to XXX tonnes in XXX

Figure 2.1-1 Capacity and output of 90% clethodim technical in China, 2019–H1 2023



Note: 202301 refers to the first half of 2023.

Source: CCM

2.2 Producer

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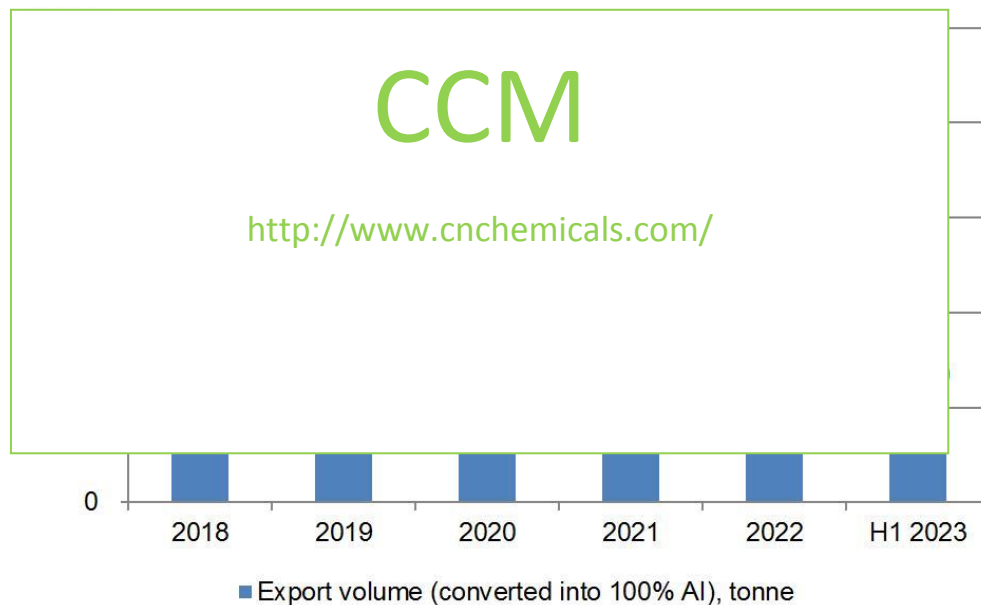
3 Export of clethodim in China, 2018–H1 2023

3.1 Export situation

With unstable growing demand, the total export volume (converted into XXX AI) of clethodim technical and formulations in China went through ups and downs. In XXX–XXX, China's clethodim exports registered increases, yet the export volume in XXX was XXX tonnes, equating to merely XXX of the XXX total (=XXX tonnes).

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Figure 3.1-1 China's exports of clethodim, 2018–H1 2023



Source: Tranalysis

- By month

Table 3.1-1 China's exports of clethodim by month, H1 2023

Month	Formulation				Technical				Total (XX AI clethodim), tonne
	XXX g/L EC		XXX g/L EC		XXX TK		XXX Tech.		
	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	
Jan.	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Feb.	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
March	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
April	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
May	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
June	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Total	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Note: "37% TK" refers to as "37% TKL" in previous Production and Export of Clethodim Issues.

Source: Tranalysis

- By destination

Table 3.1-7 China's exports of clethodim by destination, H1 2023

Country	Formulation				Technical				Total (XX AI clethodim), tonne
	XXX g/L EC		XXX g/L EC		XXX TK		XXX Tech.		
	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
.....									
Total	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: Tranalysis

- By exporter

Table 3.1-13 China's exports of clethodim by exporter, H1 2023

Exporter	Formulation				Technical				Total (XX AI clethodim), tonne
	XXX g/L EC		XXX g/L EC		XXX TK		XXX Tech.		
	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
.....									
Total	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: Tranalysis

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