

Production and Export of Clethodim in China

The Fourth Edition

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1. Introduction

Production and Export of Clethodim in China is CCM's report on the production situation of clethodim industry in China finished in Jan. 2021. This intelligent report attaches importance to the following parts:

- Registration of clethodim (including technical and formulations) in China;
- Production (capacity & output) and producers of clethodim in China, 2016–2020;
- Export of clethodim in China by volume and price, 2015–H1 2020.

2. Approach for this report

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

3. Executive summary

In recent years, China's clethodim industry has developed rapidly. On the whole, the capacity and output of clethodim technical in China maintained an uptrend from 20XX to 20XX. The capacity increased from XXX t/a in 20XX to XXX t/a in 20XX, with a CAGR of XXX%, and the output increased from XXX tonnes in 20XX to XXX tonnes in 20XX, with a CAGR of XXX%.

As of 30 Nov., 20XX, there were altogether XXX valid registrations of clethodim in China from XXX companies: XXX (including XXX for clethodim TK) are for technical, 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) in China.

In 20XX, there were XXX clethodim technical manufacturers in China and XXX of them were active in clethodim production. As the new production line (XXX t/a) put into trial production, Yifan Biotechnology Group Co., Ltd. became the largest clethodim producer in China by capacity (XXX t/a) in 20XX. Shandong Cynda Chemical Co., Ltd. has planned to expand capacity through its subsidiaries Liaoning Cynda Chemical Co., Ltd. and Weifang Cynda Chemical Co., Ltd.

With robust demand, from 20XX to 20XX, the total export volume (converted into 100% AI) of clethodim technical and formulations in China increased from XXX tonnes to XXX tonnes, with a CAGR of XXX%. In H1 20XX, China exported around XXX tonnes of clethodim, a decline of XXX% compared with the same period the previous year.

Compared with other selective post-emergence herbicides such as fluazifop-P-butyl, haloxyfop-P-methyl and quizalofop-P-ethyl, other competing products in soybean application, clethodim is superior in costs of production and application. Besides, clethodim products will be gradually applied in various kinds of broad-leaf crops besides soybean. What's more, there is a great potential for glyphosate and clethodim mixed formulations in glyphosate-tolerant crops. These also open up a good market prospect for clethodim, which is one of the reasons for the rapid development of clethodim in recent years.

4. What's in this report?

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

1 Registration of clethodim in China

Table 1-1 Registrations of clethodim technical in China, as of 30 Nov., 2020

No.	Registrant	Registration number	Type of formulation	Content	Expiry date
1	XXX	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX
.....	XXX	XXX	XXX	XXX	XXX

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

Table 1-2 Registrations of clethodim formulations in China, as of 30 Nov., 2020

Formulation		Active ingredient	Content	Number	Share
Single formulations	EC	Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
		Clethodim	XXX	XXX	XXX
	OD	Clethodim	XXX	XXX	XXX
Sub-total	/	XXX	XXX	XXX	
Mixed formulations	OD	Fomesafen-clethodim	XXX	XXX	XXX
		Fomesafen-clomazone-clethodim	XXX	XXX	XXX
		Clethodim-rimsulfuron-metribuzin	XXX	XXX	XXX
		Clopyralid-clethodim-benazolin-ethyl	XXX	XXX	XXX
		Clopyralid-clethodim-picloram	XXX	XXX	XXX
		Rimsulfuron-clethodim	XXX	XXX	XXX
		Clopyralid-clethodim	XXX	XXX	XXX
	EC	Fomesafen-clomazone-clethodim	XXX	XXX	XXX
		Haloxypop-P-methyl-clethodim	XXX	XXX	XXX
		Fomesafen-clethodim	XXX	XXX	XXX
		Clethodim-benazolin-ethyl	XXX	XXX	XXX
	ME	Fomesafen-clethodim	XXX	XXX	XXX
	Sub-total	/	XXX	XXX	XXX
Total	/	/	XXX	XXX	

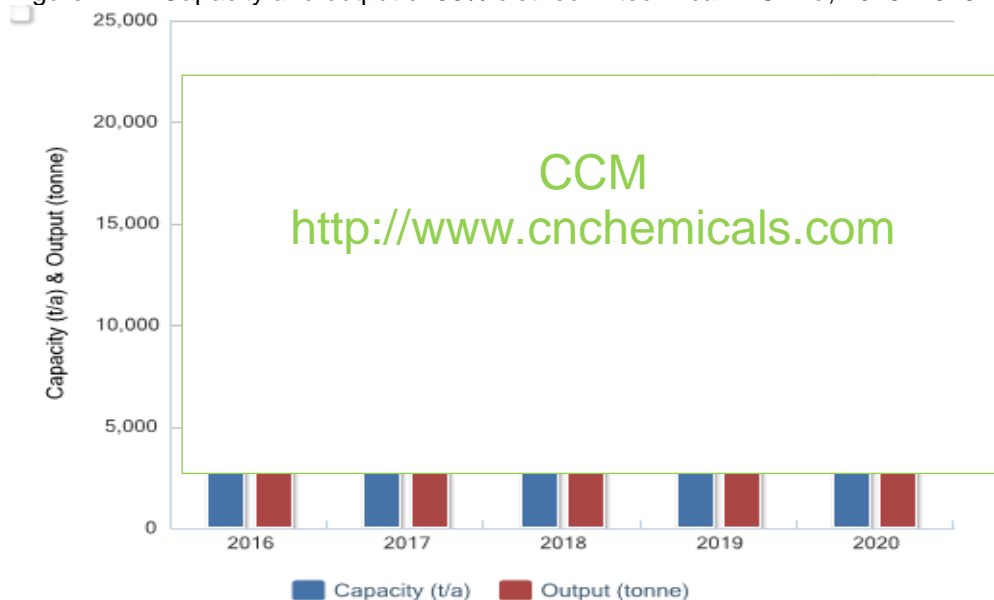
Note: Due to rounding, shares of sub-total may not be 100%.
Source: ICAMA

2 Supply of clethodim in China, 2016–2020

2.1 Overview of production

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Figure 2.1-1 Capacity and output of 90% clethodim technical in China, 2016–2020



Source: CCM

...

2.2 Producer

Table 2.2-1 Capacity and output of clethodim technical producers in China, 2016–2020

No.	Enterprise	Status, 2020	2016		2017		2018		2019		2020	
			Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne	Capacity, t/a	Output, tonne
1	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	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	XXX	XXX

Note: All the data is calculated as 90% technical.

Source: CCM

...

Table 2.2-2 New or expansion projects of clethodim technical in China, as of 15 Dec., 2020

No.	Producer	Location	Planned capacity, t/a	Remark
1	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX
...	XXX	XXX	XXX	XXX

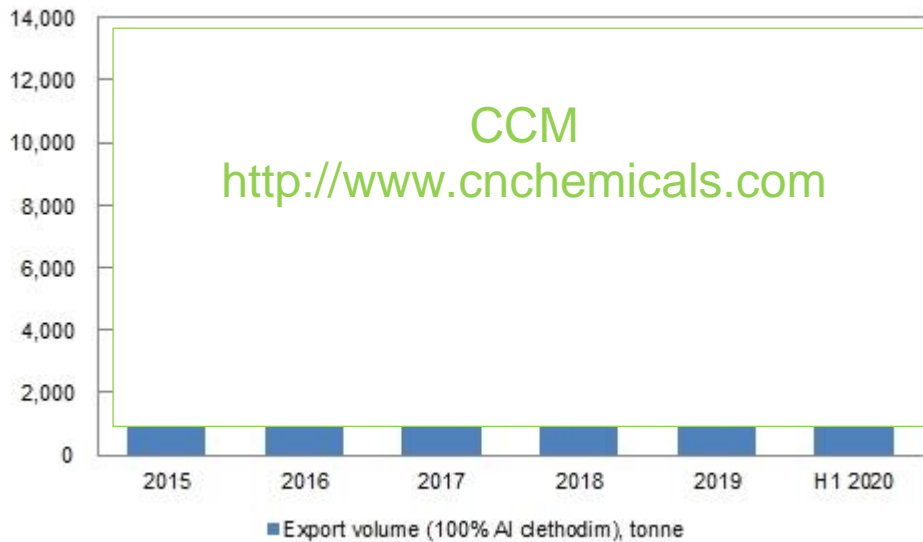
Source: CCM

3 Export of clethodim in China, 2015–H1 2020

3.1 Export situation

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Figure 3.1-2 China's exports of clethodim, 2015–H1 2020



Source: China Customs and CCM

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Table 3.1-1 China's exports of clethodim by month, 2019

Month	Formulation				Technical						Total (100% AI clethodim), tonne
	120g/L EC		240g/L EC		37% TK		...		95% Tech.		
	Volume, tonne	Price, USD/kg	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
...	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
Dec.	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Total	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: China Customs and CCM

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Table 3.1-6 China's exports of clethodim by destination, 2019

No.	Country	Formulation				Technical						Total (100% AI clethodim), tonne
		120g/L EC		240g/L EC		37% TK		...		95% Tech.		
		Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	
1	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
...	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
15	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
Others		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Total		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: China Customs and CCM

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Table 3.1-11 China's exports of clethodim by exporter, 2019

No.	Exporter	Formulation				Technical						Total (100% AI clethodim), tonne
		120g/L EC		240g/L EC		37% TK		...		95% Tech.		
		Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg	
1	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
...	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
15	XXX	XXX	XXX	XXX	XXX	XXX	XXX	...	...	XXX	XXX	XXX
Others		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Total		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: China Customs and CCM

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