

# **Production and Export of Clethodim in China**

**The Third Edition**

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**Researched & Prepared by:**

**Kcomber Inc.**

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## 1. Introduction

*Production and Export of Clethodim in China* is CCM's report on the production situation of clethodim industry finished in Jan. 2020. 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, 2015–2019;
- Export of clethodim in China by volume and price, 2014–2018.

## 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. In 2019, the capacity and output of clethodim 90% technical in China were XXX t/a and XXX tonnes, growing with CAGR of XXX% and XXX% during 2015–2019 respectively.

As of 31 Dec., 2019, there were altogether XXX valid registrations of clethodim from XXX companies in China, among which 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 (ICAMA) in China.

In 2019, there were XXX enterprises producing clethodim technical in China. Among these enterprises, XXX was the largest clethodim producer in 2019, and it was planning to expand capacity again by its subsidiary XXX. XXX and XXX both had capacity of XXX t/a in 2019.

Clethodim produced in China is export-oriented. With robust demand, from 2014 to 2018, the total export volume of clethodim technical and formulations in China increased from XXX tonnes to XXX tonnes, with a CAGR of XXX%.

As an environment-friendly and highly-effective herbicide, the demand for clethodim at home and abroad increased significantly in recent years. Compared with other selective post-emergence herbicides for soybean, clethodim has the price advantage. In addition, its application in other crops and combination with glyphosate have also kept developing, which will have a great growth potential to its demand in the future.

#### 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 31 Dec., 2019

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 31 Dec., 2019

Formulation		Active ingredient	Content	Number	Share
Single formulations	EC	Clethodim	XXX	XXX	XXX
		...	XXX	XXX	XXX
	OD	Clethodim	XXX	XXX	XXX
	Sub-total	/	XXX	XXX	XXX
Mixed formulations	OD	Fomesafen-clethodim	XXX	XXX	XXX
		...	XXX	XXX	XXX
	EC	Fomesafen-clomazone-clethodim	XXX	XXX	XXX
		...	XXX	XXX	XXX
	ME	Fomesafen-clethodim	XXX	XXX	XXX
Sub-total	/	XXX	XXX	XXX	
<b>Total</b>		/	/	XXX	XXX

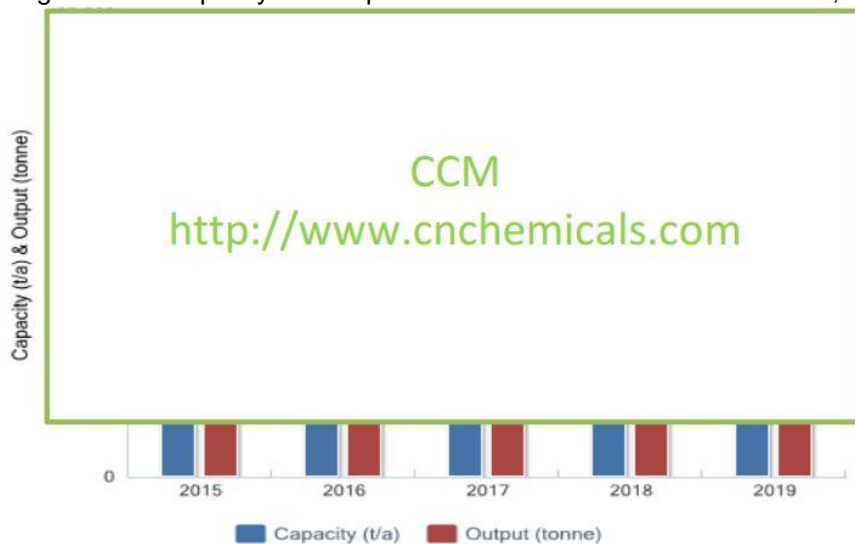
Note: Due to rounding, shares of sub-total may not be 100%.

Source: ICAMA

## 2 Supply of clethodim in China, 2015–2019

### 2.1 Overview of production

Figure 2.1-1 Capacity and output of 90% clethodim technical in China, 2015–2019



Source: CCM

### 2.2 Producer

Table 2.2-1 Capacity and output of clethodim technical producers in China, 2015–2019

No.	Enterprise	Status, 2019	2015		2016		2017		2018		2019	
			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
<b>Total</b>		<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>

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 31 Dec., 2019

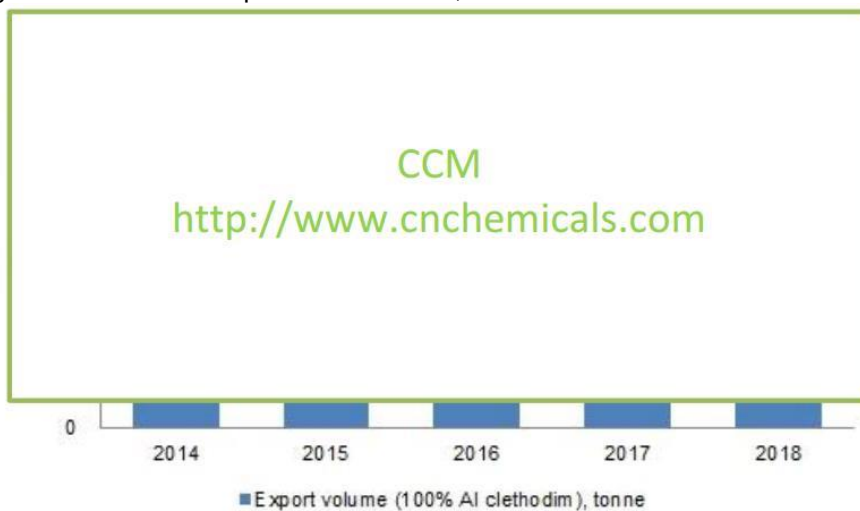
No.	Producer	Location	Planned capacity, t/a	Remark
1	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX

Source: CCM

### 3 Export of clethodim in China, 2014–2018

#### 3.1 Export situation

Figure 3.1-1 China's exports of clethodim, 2014–2018



Source: China Customs and CCM

Table 3.1-1 China's exports of clethodim by month, 2018

Month	Formulation				Technical										Total (100% AI clethodim), tonne	
	120g/L EC		240g/L EC		37% TK		70% TK		90% Tech.		94% Tech.		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	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg		
Jan.	XXX	XXX	XXX	XXX	XXX	XXX	XXX	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	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Dec.	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
<b>Total</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>

Source: China Customs and CCM

**Table 3.1-6 China's exports of clethodim by destination, 2018**

No.	Country	Formulation				Technical										Total (100% AI clethodim), tonne		
		120g/L EC		240g/L EC		37% TK		70% TK		90% Tech.		94% Tech.		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	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	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	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
15	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Others		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
<b>Total</b>		<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>

Source: China Customs and CCM

**Table 3.1-11 China's exports of clethodim by exporter, 2018**

No.	Exporter	Formulation				Technical										Total (100% AI clethodim), tonne		
		120g/L EC		240g/L EC		37% TK		70% TK		90% Tech.		94% Tech.		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	Volume, tonne	Price, USD/kg	Volume, tonne	Price, USD/kg			
1	XXX	XXX	XXX	XXX	XXX	XXX	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	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
15	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Others		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
<b>Total</b>		<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>	<b>XXX</b>

Source: China Customs and CCM

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