

# **Chloroform Market in China**

**The First Edition**

**Aug. 2016**

**Researched & Prepared by:**

**Kcomber Inc.**

**Copyright by Kcomber Inc.**

**Any publication, distribution or copying of the content in this report is prohibited.**

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

## Contents

Executive summary .....	1
Introduction and methodology .....	2
1 Production of chloroform in China, 2013-2015 .....	5
1.1 Capacity and output of chloroform.....	5
1.2 Closing down capacity of chloroform.....	6
1.3 New capacity of chloroform.....	6
2 Major producers and distribution of chloroform in China, 2013-2015.....	7
3 Application of chloroform in China.....	10
3.1 Consumption volume of chloroform, 2013-2015 .....	10
3.2 Application field of chloroform .....	10
4 Factors influencing supply and demand of chloroform in China and forecast, 2016-2020 .....	12
5 Opportunities and investment suggestions .....	14
6 Company profiles of major producers of chloroform in China .....	16
6.1 Shandong Jinling Group Co., Ltd. ....	16
6.2 Shandong Dongyue Chemical Co., Ltd. ....	16
6.3 Jiangsu Meilan Chemical Co., Ltd.....	17
6.4 Zhejiang Quhua Fluorine Chemical Co., Ltd. ....	18
6.5 Ningbo Juhua Chemical & Science Co., Ltd. ....	18
6.6 LUXI Group Co., Ltd.....	19
6.7 Jiangsu Lee & Man Chemical Limited.....	19
6.8 Jiangxi Lee & Man Chemical Limited .....	20
6.9 Dongying Jinmao Aluminium Hi-Tech Co., Ltd.....	21
6.10 Chongqing Tianyuan Chemical Co., Ltd. ....	21
6.11 Luzhou North Chemical Industries Co., Ltd. ....	22
6.12 Luzhou Xinfu Chemical Co., Ltd.....	22
6.13 Haohua Honghe Chemical Co., Ltd. ....	23
6.14 Shandong Haihua Co., Ltd.....	24

## LIST OF TABLES

Table 1.2-1 Closing down capacity of chloroform in China, as of June 2016

Table 1.3-1 New capacity of chloroform in China, as of June 2016

Table 2-1 Major producers of chloroform in China, 2013-2015

Table 3.2-1 Consumption percentage of chloroform in China by end-user segment, 2013-2015

## LIST OF FIGURES

Figure 1.1-1 Capacity and output of chloroform in China, 2013-2015

Figure 2-1 Distribution of chloroform capacity in China, 2015

Figure 2-2 Distribution share of chloroform capacity in China, 2015

Figure 3.1-1 Apparent consumption of chloroform in China, 2013-2015

Figure 3.2-1 Consumption volume of chloroform in end-user segments in China, 2013-2015

## 1. Introduction

Chloroform Market in China is CCM's report on chloroform, one important organic synthetic raw material and especially the main raw material of fluorine refrigerant, finished in Aug. 2016. This intelligent report attaches importance to the following parts:

- Production of chloroform (capacity, output and major manufacturers) by volume in China;
- Application (consumption and application fields) of chloroform in China;
- Factors influencing supply and demand of chloroform in China;
- Opportunities and investment suggestions on chloroform in China.

## 2. Approach for the report

### 2.1 Desk research

Sources of desk research are various including published magazines, journals, governmental statistics, industrial statistics, customs statistics, associated seminars as well as information from the internet. A lot of work has been done to compile and analyze the information obtained. When necessary, checks would be made with Chinese market players regarding market information such as production, demand and consumption.

### 2.2 Telephone interview

The interviewees cover:

- Chloroform manufacturers
- Experts
- Traders
- Local governments
- Researchers
- Industrial associations

CCM carried out extensive telephone interviews with almost all chloroform manufacturers. From those active manufacturers and manufacturers that have suspended or stopped production, CCM sourced and verified the detailed production and market information as well as industry insiders' comments on chloroform.

In a bid to understand the application of chloroform in China, CCM also made contact with domestic traders and distributors as well.

### 2.3 Data processing and presentation

The data collected and compiled are sourced from:

- Published articles from Chinese periodicals, magazines, journals and third-party databases
- Governmental statistics & customs statistics
- Telephone interviews with Chinese manufacturers, traders
- Comments from industrial experts
- CCM's innovative database
- Professional databases from other sources
- Information from the internet

The data from various channels have been combined to make this report as precise and scientific as possible. Throughout the process, a series of internal discussions have been held in order to analyze the data and draw conclusions from it.

### 2.4 Abbreviation

HCFC: hydrochlorofluorocarbons

HFC: hydrofluorocarbons

HFO: hydrofluoroolefins

HCFC-22: refers to monochlorodifluoromethane, also called as Refrigerant 22, or R22 or F22. Its molecular formula is  $\text{CHClF}_2$ .

HFC-125: pentafluoroethane, one kind of refrigerant which can be mixed used with other refrigerants like HFC-32.

HFC-32: difluoromethane, one kind of refrigerant.

CMS: shorts for chlorinated methanes which include chloromethane, dichloromethane, chloroform and carbon tetrachloride.

PCE: perchloroethylene, also called tetrachloroethylene

TCE: trichloroethylene

TFE: tetrafluoroethylene

CAGR: compound annual growth rate

YoY: year-on-year

### 2.5 Units

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

### 3. Executive summary

Chlorinated methanes (CMS) include chloromethane, dichloromethane, chloroform and carbon tetrachloride. CMS are not only the important chlorine consuming products but also the important upstream raw materials of fluorine industry which has relatively high technology content and added value.

Since Juhua Group Corporation introduced a set of chloroform production device in 1993, chloroform industry has developed fast in China. In 2015, there were more than XX manufacturers producing chloroform in China. The top three manufacturers of chlorinated methanes (CMS) by capacity were XX, XX and XX, with capacities of XX, XX and XX respectively in 2015.

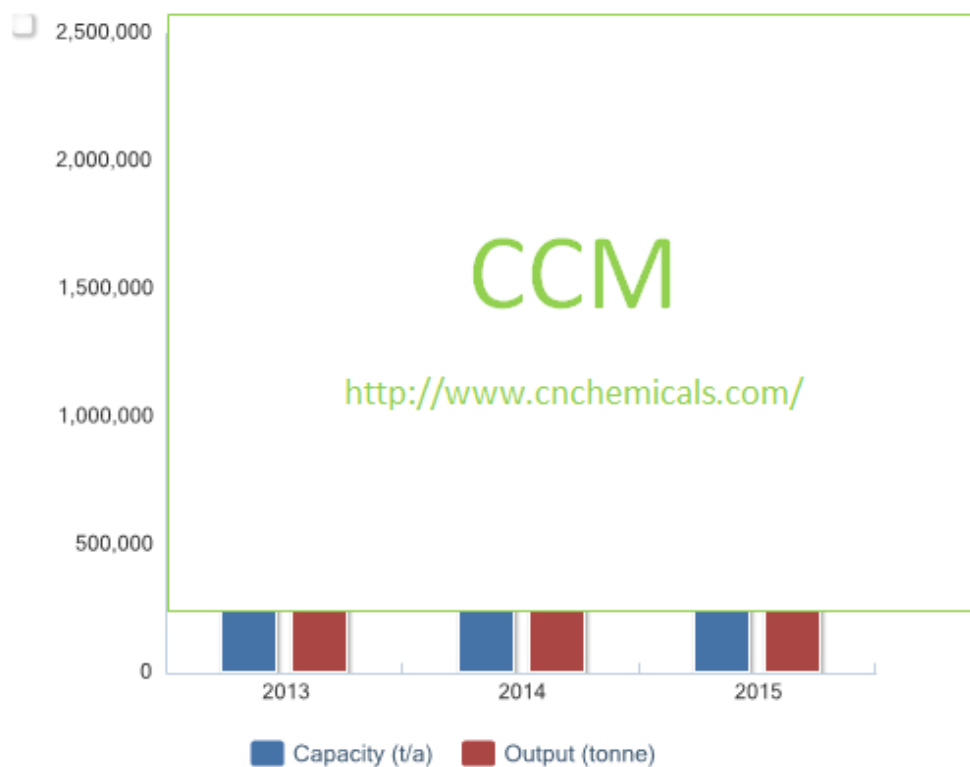
Affected by the depressed market of chloroform, from 2013 to 2015, the output of chloroform in China was XX tonnes in 2015, with a CAGR of XX and the apparent consumption volume of chloroform in China was XX tonnes in 2015, with a CAGR of XX.

In the future, expanding the downstream demand is important to increase the consumption of chloroform. Chloroform in China is mainly used for producing HCFC-22, and it accounted for XX of the total consumption in China in 2015. However, its demand for chloroform has declined affected by the elimination of HCFCs, including HCFC-22 used as non-raw material. With the development of fluorine industry, the demand for HCFC-22 used as raw material will increase and it will, to some extent, reduce the adverse effect on chloroform's consumption caused by the elimination of HCFCs. However, if there is no breakthrough development of downstream industries of chloroform, the demand for chloroform will face a downtrend.

#### 4. What's in this report?

In China, the industrial production of chloroform didn't start until 1993 when Juhua Group Corporation introduced a set of chloroform production device. With the development of refrigerants especially HCFC-22, the capacity of chlorinated methanes (CMS) including chloromethane, dichloromethane, chloroform and carbon tetrachloride in China was rising.

Figure 1.1-1 Capacity and output of chloroform in China, 2013-2015



Note: The capacity is chlorinated methanes' capacity.

In China, there are more than 14 manufactures producing chloroform. As of June 2016, XX producers were active and XX producers were idle in producing chloroform.

Table 1.2-1 Closing down capacity of chloroform in China, as of June 2016

No.	Company	Location	Capacity, t/a	Remark
1	Haohua Honghe Chemical Co., Ltd.	XX	XX	Suspended in 2016
...	XX	XX	XX	Suspended in 2015

Note: The capacity is chlorinated methanes' capacity.

Source: CCM

Table 2-1 Major producers of chloroform in China, 2013-2015

No.	Company	Location	Status, June 2016	Capacity '15, t/a	Capacity'14, t/a	Capacity'13, t/a	Output '15, tonne	Output '14, tonne	Output '13, tonne
1	Shandong Jinling Group Co., Ltd.	XX	Active	XX	XX	XX	XX	XX	XX
2	...	...	...	...	...	...	...	...	...
<b>Total</b>				XX	XX	XX	XX	XX	XX

Figure 2-1 Distribution of chloroform capacity in China, 2015



Source: CCM

Chloroform is mainly used for producing HCFC-22, and also can be used in medicines & agrochemicals, detergent and others.

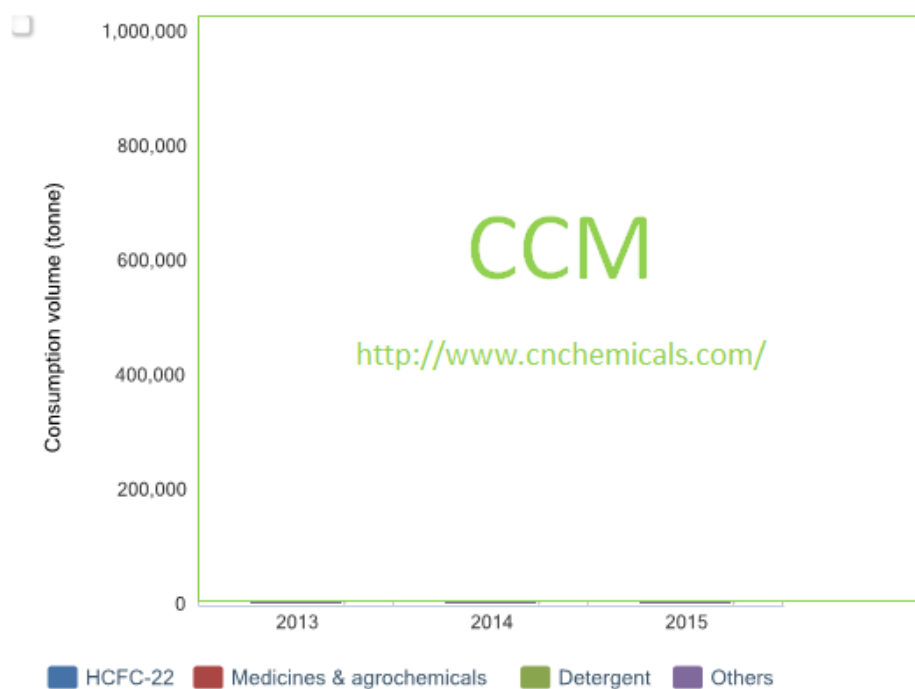
Table 3.2-1 Consumption percentage of chloroform in China by end-user segment, 2013-2015

Year	HCFC-22	Medicines & agrochemicals	Detergent	Others	Total
2013	XX	XX	XX	XX	<b>100.00%</b>
2014	XX	XX	XX	XX	<b>100.00%</b>
2015	XX	XX	XX	XX	<b>100.00%</b>

Source: CCM



Figure 3.2-1 Consumption volume of chloroform in end-user segments in China, 2013-2015



Source: CCM

**If you want more information, please feel free to contact us**

Tel: +86-20-37616606 Fax: +86-20-37616968

Email: [econtact@cnchemicals.com](mailto:econtact@cnchemicals.com)