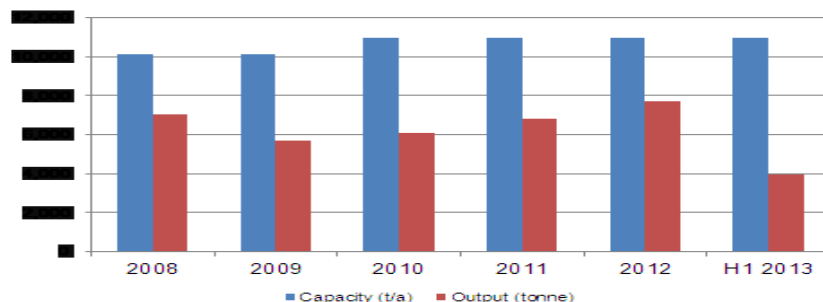


Note: Key data/information in this sample page is hidden, while in the report it is not.

### 3 L-Cysteine production situation in China

#### 3.1 Production (by product types), 2008-H1 2013

Figure 3.1-1 Capacity and output of L-cysteine in China, 2008-H1 2013



Note: L-Cysteine includes three L-cysteine products: L-cysteine hydrochloride monohydrate, L-cysteine hydrochloride anhydrous and L-cysteine base.

Source: CCM

#### 3.1.1 Current top three producers' situation

Table 3.1.1-2 Production situation of top three producers of L-cysteine in China, 2008-H1 2013

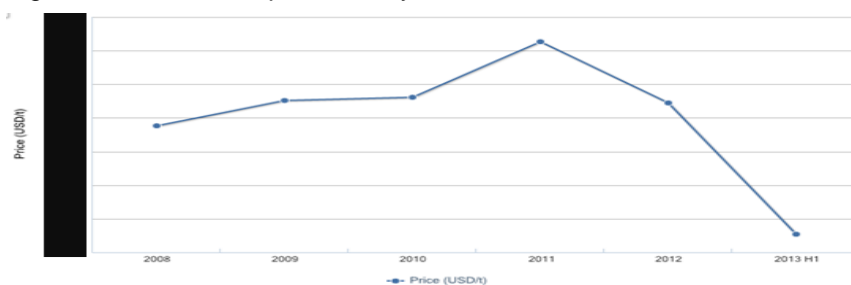
No.	Company	Capacity, t/a						Output, tonne			
		2013	2012	2011	2010	2009	2008	H1 2013	2012	2011	2010
1	Shine Star (Hubei) Biological Engineering Co., Ltd.	xxxx	xxxx	xxxx	xxxx	xxxx	4,000	xxxx	xxxx	xxxx	xxxx
2	xxxxxxxxxxxxxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
3	xxxxxxxxxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx

Source: CCM

### 4 Market situation of L-cysteine in China

#### 4.1.1 L-Cysteine market price, 2008-H1 2013

Figure 4.1.1-2 Market price of L-cysteine base in China, 2008-H1 2013



Source: CCM

#### 4.1.2.3 L-Cysteine price trend, 2014-2018

Figure 4.1.2.3-2 Forecast on the market price of hydrochloride anhydrous in China, 2013-2018

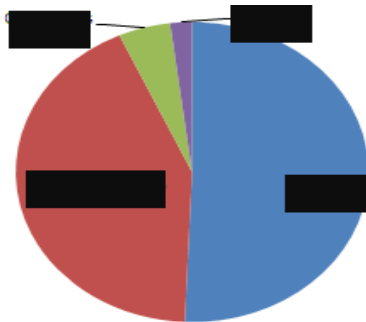


Source: CCM

## 4.2 Major applications in China

### 4.2.1 Consumption pattern of L-cysteine, 2012

Figure 4.2.1-1 Consumption pattern of L-cysteine by volume in China, 2012



Source: CCM

## 5 Technology introduction

### 5.2 Emerging technology

Because hydrolysis method for L-cysteine production is mature in China, few domestic enterprises focused on the further research of hydrolysis method in recent years and the pollution problems it causes still exist. Producing L-cysteine brings a lot of pollutants.....

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