

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

### 3 Registration situation of atrazine in China

Table Valid registrations of atrazine in China, as of Jan.10, 2013

| Effective year | Technical | Formulation | Total      |
|----------------|-----------|-------------|------------|
| 2008           | 12        | 89          | 101        |
| 2009           | 6         | 141         | 147        |
| 2010           | 0         | 36          | 36         |
| 2011           | 0         | 15          | 15         |
| 2012           | 4         | 77          | 81         |
| 2013           | 1         | 2           | 3          |
| <b>Total</b>   | <b>23</b> | <b>360</b>  | <b>383</b> |

Source: ICAMA

Table Valid registrations of atrazine technical in China, as of Jan.10, 2013

| No. | Company                                            | Registration code | Content       | Effective year | Expiration year |
|-----|----------------------------------------------------|-------------------|---------------|----------------|-----------------|
| 1   | Jilin Lvsheng Pesticide Chemical Co., Ltd.         | PD93105           | 92%, 88%, 85% | 2008.05.27     | 2013.05.27      |
| 2   | Hebei Xuanhua Pesticide Co., Ltd.                  | PD93105-3         | 92%, 88%, 85  | 2008.06.03     | 2013.06.03      |
| 3   | Kunming Pesticide Co., Ltd.                        | PD20080686        | 92%           | 2008.06.04     | 2013.06.04      |
| 4   | Shandong Binnong Technology Co., Ltd.              | PD20080706        | 98%           | 2008.06.04     | 2013.06.04      |
| 5   | Zhejiang Zhongshan Chemicals Group Co., Ltd.       | PD20080805        | 95%           | 2008.06.20     | 2013.06.20      |
| 6   | Zhejiang Changxing No.1 Chemical Co., Ltd.         | PD93105-2         | 92%, 88%, 85% | 2008.06.26     | 2013.06.26      |
| 7   | Shandong Qiaochang Chemical Co., Ltd.              | PD20081023        | 92%           | 2008.08.06     | 2013.08.06      |
| 8   | Jilin Jinjiu Pesticide Co., Ltd.                   | PD20081482        | 92%           | 2008.11.04     | 2013.11.04      |
| 9   | Syngenta AG                                        | PD20081892        | 96%           | 2008.11.20     | 2013.11.20      |
| 10  | Henan Boai Huifeng Biochemical Pesticide Co., Ltd. | PD20082125        | 97%           | 2008.11.25     | 2013.11.25      |
| 11  | Jiangsu Lulilai Co., Ltd.                          | PD20085579        | 97%           | 2008.12.25     | 2013.12.25      |
| 12  | Jiangsu Lulilai Co., Ltd.                          | PD20085579        | 97%           | 2008.12.25     | 2013.12.25      |
| 13  | Shandong Dacheng Pesticide Co., Ltd.               | PD20091306        | 95%           | 2009.02.01     | 2014.02.01      |
| 14  | Shandong Dacheng Pesticide Co., Ltd.               | PD20091306        | 95%           | 2009.02.01     | 2014.02.01      |
| 15  | Guangxi Chemical Research Institute                | PD20094227        | 95%           | 2009.03.31     | 2014.03.31      |
| ... | ...                                                | ...               | ...           | ...            | ...             |

Source: ICAMA

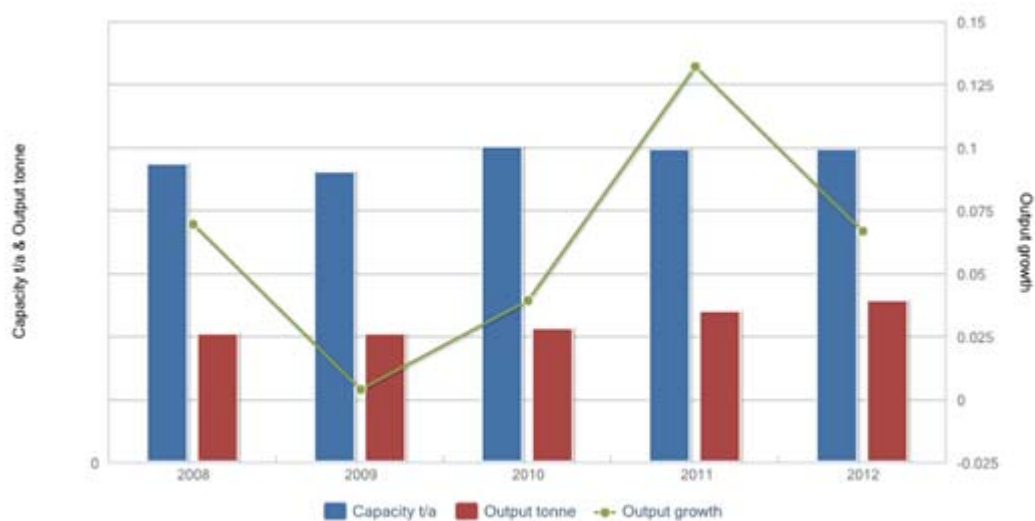
Table Valid registrations of atrazine formulations in China, as of Jan.10, 2013

|                    |                       | Item                                                        | Number     | Share          |
|--------------------|-----------------------|-------------------------------------------------------------|------------|----------------|
| Single formulation | WP                    | 48%                                                         | 21         | 16.54%         |
|                    |                       | 80%                                                         | 11         | 8.66%          |
|                    | SC                    | 20%                                                         | 2          | 1.57%          |
|                    |                       | 38%                                                         | 62         | 48.82%         |
|                    |                       | 50%                                                         | 14         | 11.02%         |
|                    |                       | 55%                                                         | 1          | 0.79%          |
|                    |                       | 60%                                                         | 1          | 0.79%          |
|                    | WDG                   | 90%                                                         | 14         | 11.02%         |
|                    | Others                | 25%                                                         | 1          | 0.79%          |
|                    | Total                 | /                                                           | 127        | 100.00%        |
| Mixed formulation  | Propisochlor-Atrazine | 40%SC, 41%SC, 42%SC, 50%SC, 40%SE, 41%SE, 42%SE, 50%SE      | 54         | 23.18%         |
|                    | Nicosulfuron-Atrazine | 22%SC, 52%SC, 20%OD,22%OD, 23%OD, 52%WP, 54%WP, 52%WP, etc. | 37         | 15.88%         |
|                    | Acetochlor-Atrazine   | 40%WP, 48%WP,55%SC, 50%SC, 40%SE, 52%SE, etc.               | 29         | 12.45%         |
|                    | Butachlor-Atrazine    | 42%SC, 40%SC, 48%SC, 42%SE, 40%SE, 48%SE                    | 23         | 9.87%          |
|                    | Others                | /                                                           | 90         | 38.63%         |
|                    | <b>Total</b>          | <b>/</b>                                                    | <b>233</b> | <b>100.00%</b> |

Source: ICAMA

#### 4 Supply of atrazine in China, 2008-2012

##### 4.1 Summary of atrazine technical production



Source: CCM

## 4.2 Key atrazine technical manufacturers

Table Capacity and output of main atrazine technical producers in China, 2008-2013

| No.          | Producer | Status | Capacity, t/a |      |      |      |      | Output, tonne |      |      |      |      |
|--------------|----------|--------|---------------|------|------|------|------|---------------|------|------|------|------|
|              |          |        | 2012          | 2011 | 2010 | 2009 | 2008 | 2012          | 2011 | 2010 | 2009 | 2008 |
| 1            | ■        | Active | ■             | ■    | ■    | ■    | ■    | ■             | ■    | ■    | ■    | ■    |
| 2            | ■        | Active | ■             | ■    | ■    | ■    | ■    | ■             | ■    | ■    | ■    | ■    |
| ...          | ...      | ...    | ...           | ...  | ...  | ...  | ...  | ...           | ...  | ...  | ...  | ...  |
| <b>Total</b> |          | /      | ■             | ■    | ■    | ■    | ■    | ■             | ■    | ■    | ■    | ■    |

Source: CCM

## 5 Circulation situation of atrazine in China

### 5.1 Import and export of atrazine, 2010-2012

Table Export of atrazine by month, 2012

| Month        | 38% SC      |                | 50% SC      |                | 80% WP      |                | 90% WDG     |                | Technical   |                | Total volume(kg) | Total value(USD) |
|--------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|------------------|------------------|
|              | Volume (kg) | Price (USD/kg) | Volume (kg) | Price (USD/kg) | Volume (kg) | Price (USD/kg) | Volume (kg) | Price (USD/kg) | Volume (kg) | Price (USD/kg) |                  |                  |
| Jan.         | 41,712      | ■              | 422,311     | ■              | 1,163,918   | ■              | 1,380,674   | ■              | ■           | ■              | ■                | ■                |
| Feb.         | 26,400      | ■              | 294,378     | ■              | 205,494     | ■              | 1,161,262   | ■              | ■           | ■              | ■                | ■                |
| March        | 0           | ■              | 53,212      | ■              | 1,170,368   | ■              | 1,054,900   | ■              | ■           | ■              | ■                | ■                |
| April        | 0           | ■              | 317,125     | ■              | 293,741     | ■              | 649,785     | ■              | ■           | ■              | ■                | ■                |
| May          | 0           | ■              | 294,480     | ■              | 572,577     | ■              | 842,690     | ■              | ■           | ■              | ■                | ■                |
| June         | 0           | ■              | 150,035     | ■              | 590,362     | ■              | 1,141,518   | ■              | ■           | ■              | ■                | ■                |
| July         | ■           | 2.71           | ■           | 3.26           | ■           | 3.4            | ■           | 4.42           | ■           | ■              | ■                | ■                |
| Aug.         | ■           | 0              | ■           | 3.05           | ■           | 3.75           | ■           | 4.46           | ■           | ■              | ■                | ■                |
| Sept.        | ■           | 2.4            | ■           | 2.85           | ■           | 3.38           | ■           | 4.43           | ■           | ■              | ■                | ■                |
| Nov.         | ■           | 1.6            | ■           | 2.56           | ■           | 3.56           | ■           | 4.39           | ■           | ■              | ■                | ■                |
| Dec.         | ■           | 1.83           | ■           | 2.91           | ■           | 3.06           | ■           | 4.08           | ■           | ■              | ■                | ■                |
| <b>Total</b> | ■           | <b>1.93</b>    | ■           | <b>2.77</b>    | ■           | <b>3.14</b>    | ■           | <b>4.27</b>    | ■           | ■              | ■                | ■                |

Source: CCM & China Customs

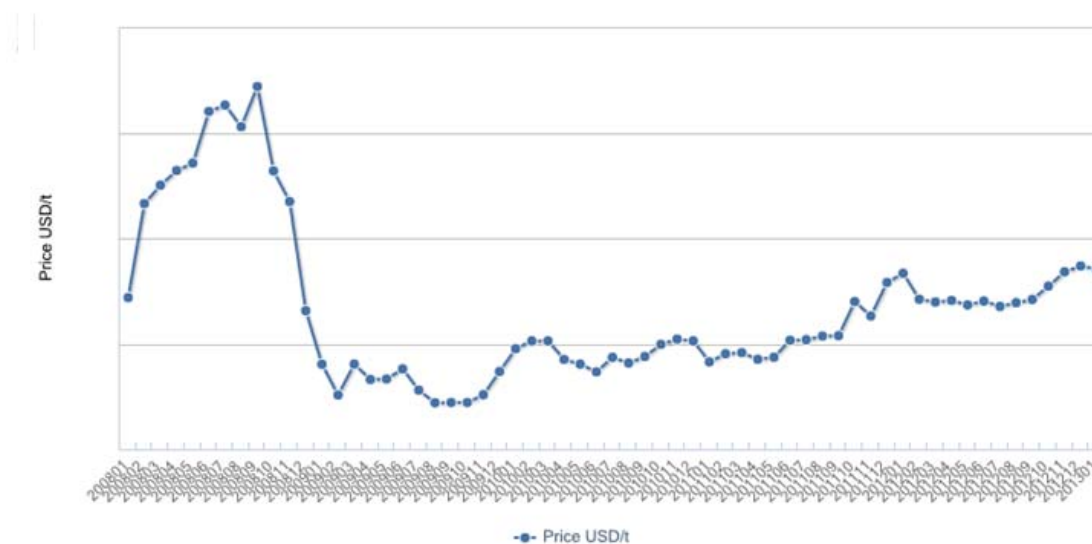
Table Export of atrazine by destination, 2010

| No.          | Export destination | 38%SC (kg) | 50% SC (kg) | 80%WP (kg) | 90%WDG (kg) | Technical (kg) | Total volume(kg) | Total value(USD) |
|--------------|--------------------|------------|-------------|------------|-------------|----------------|------------------|------------------|
| 1            | Israel             |            |             |            |             |                |                  |                  |
| 2            | Thailand           |            |             |            |             |                |                  |                  |
| 3            | Ukraine            |            |             |            |             |                |                  |                  |
| 4            | Nigeria            |            |             |            |             |                |                  |                  |
| 5            | Australia          |            |             |            |             |                |                  |                  |
| ...          | ...                | ...        | ...         | ...        | ...         | ...            | ...              | ...              |
| <b>Total</b> |                    |            |             |            |             |                |                  |                  |

Source: CCM & China Customs

## 5.2 Pricing of atrazine in China, 2008-2012

Figure Ex-work price of atrazine 97% technical in China, Jan. 2008-Jan. 2013



Source: CCM

## 6 Demand of atrazine in China, 2008-2012

Table Domestic apparent consumption of atrazine, 2008-2012, tonne

| Time | Output | Export | Import | Apparent consumption volume |
|------|--------|--------|--------|-----------------------------|
| 2008 | XXX    | XXX    | XXX    | XXX                         |
| 2009 | XXX    | XXX    | XXX    | XXX                         |
| 2010 | XXX    | XXX    | XXX    | XXX                         |
| 2011 | XXX    | XXX    | XXX    | XXX                         |
| 2012 | XXX    | XXX    | XXX    | XXX                         |

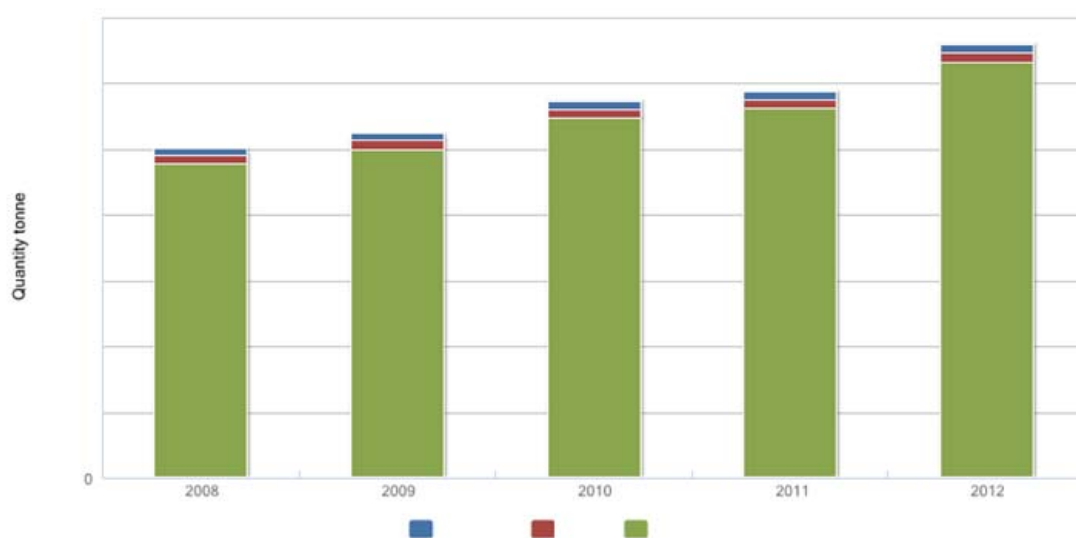
Source: CCM

Table Consumption volume and market value of atrazine formulations in China, 2008-2012

| Year | Consumption volume, tonne |        |        |         |       | Market value, million USD |        |        |         |       |
|------|---------------------------|--------|--------|---------|-------|---------------------------|--------|--------|---------|-------|
|      | 38% SC                    | 50% SC | 80% WP | 90% WDG | Total | 38% SC                    | 50% SC | 80% WP | 90% WDG | Total |
| 2008 |                           |        | 1,293  |         |       |                           |        | 5.15   |         |       |
| 2009 |                           |        | 1,352  |         |       |                           |        | 3.28   |         |       |
| 2010 |                           |        | 1,475  |         |       |                           |        | 3.97   |         |       |
| 2011 |                           |        | 1,513  |         |       |                           |        | 4.34   |         |       |
| 2012 |                           |        | 1,588  |         |       |                           |        | 4.80   |         |       |

Source: CCM

Figure Consumption structure of atrazine formulations (calculated by 97% TC) by crop in China, 2008-2012



Source: CCM