

## Environmental Data for Overseas Plants

### Lion daily Necessities Chemicals (Qingdao) Co., Ltd.

Location: Qingdao (China)

Lines of Business: Toothpastes and toothbrushes

| Category                  | Year (ton) |       |       |       |       |
|---------------------------|------------|-------|-------|-------|-------|
|                           | 2007       | 2008  | 2009  | 2010  | 2011  |
| CO <sub>2</sub> emissions | 1,744      | 1,533 | 1,668 | 1,566 | 1,576 |
| Total waste generated     | 89         | 344   | 130   | 262   | 232   |
| Landfill waste            | 57         | 187   | 50    | 162   | 2     |
| SOx emissions             | 0          | 0     | 0     | 0     | 0     |
| NOx emissions             | 0          | 0     | 0     | 0     | 0     |
| COD emissions             | 2          | 2     | 2     | 2     | 2     |

### CJ Lion Corporation

Location: Incheon (Korea)

Lines of Business: Laundry detergents, dishwashing detergents, toothpastes, toothbrushes, and hair and skin care products, etc.

| Category                  | Year (ton) |        |        |        |        |
|---------------------------|------------|--------|--------|--------|--------|
|                           | 2007       | 2008   | 2009   | 2010   | 2011   |
| CO <sub>2</sub> emissions | 17,724     | 15,791 | 16,354 | 16,667 | 15,296 |
| Total waste generated     | 856        | 1,366  | 501    | 708    | 538    |
| Landfill waste            | 536        | 512    | 459    | 451    | 441    |
| SOx emissions             | 1          | 1      | 1      | 1      | 1      |
| NOx emissions             | 0          | 0      | 0      | 0      | 0      |
| COD emissions             | 0          | 0      | 0      | 0      | 0      |

### Lion Chemical Industry (Taiwan) Co., Ltd.

Location: Wugu, Kannon (Taiwan)

Lines of Business: Laundry detergents, dishwashing detergents, toothpastes, toothbrushes, and skin care products, surfactants, etc.

| Category                  | Year (ton) |       |       |       |       |
|---------------------------|------------|-------|-------|-------|-------|
|                           | 2007       | 2008  | 2009  | 2010  | 2011  |
| CO <sub>2</sub> emissions | 4,668      | 3,942 | 4,124 | 4,135 | 3,559 |
| Total waste generated     | 90         | 88    | 111   | 108   | 80    |
| Landfill waste            | 48         | 48    | 65    | 70    | 54    |
| SOx emissions             | 3          | 5     | 2     | 3     | 3     |
| NOx emissions             | 3          | 4     | 3     | 2     | 4     |
| COD emissions             | 15         | 11    | 6     | 0     | 1     |

### Lion Corporation (Thailand) Ltd.

Location: Sriracha (Thailand)

Lines of Business: Laundry detergents, dishwashing detergents, toothpastes, toothbrushes, and hair and skin care products, etc.

| Category                  | Year (ton) |        |        |        |        |
|---------------------------|------------|--------|--------|--------|--------|
|                           | 2007       | 2008   | 2009   | 2010   | 2011   |
| CO <sub>2</sub> emissions | 20,846     | 22,661 | 26,793 | 28,750 | 29,572 |
| Total waste generated     | 948        | 2,316  | 2,299  | 2,551  | 2,893  |
| Landfill waste            |            | 1,332  | 1,240  | 1,315  | 1,412  |
| SOx emissions             | 1          | 2      | 0      | 1      | 0      |
| NOx emissions             | 17         | 6      | 11     | 5      | 22     |
| COD emissions             | 1          | 4      | 1      | 8      | 3      |

### Lion Eco Chemicals Sdn. Bhd.

Location: Johor (Malaysia)

Lines of Business: surfactants

| Category                  | Year (ton) |      |       |       |       |
|---------------------------|------------|------|-------|-------|-------|
|                           | 2007       | 2008 | 2009  | 2010  | 2011  |
| CO <sub>2</sub> emissions |            |      | 2,273 | 4,359 | 7,578 |
| Total waste generated     |            |      | 381   | 407   | 252   |
| Landfill waste            |            |      | 89    | 231   | 223   |
| SOx emissions             |            |      | 8     | 15    | 38    |
| NOx emissions             |            |      | 0     | 0     | 0     |
| COD emissions             |            |      | 0     | 0     | 1     |

\*CJ Lion (Korea) calculates its CO<sub>2</sub> emissions by using Korea's calorific value conversion factor for each fuel and electricity as well as the conversion factor for CO<sub>2</sub> emission amount.

\*The calculation method for CO<sub>2</sub> emission amount outside of CJ Lion, the The Japan Electrical Manufacturers' Association's (JEMA) "The Estimated Report for the Power Sector and CO<sub>2</sub> Basic Unit for Emission(Ver. 3) (2006)" was used. The calculation method for CO<sub>2</sub> emission amount for fuel other than electricity, the calorific value conversion factor for CO<sub>2</sub> emission amount within Japan included in the Ministry of the Environment's "Calculation Method and Report for Greenhouse Gas Emission(Ver.3.2) (2011)" was used.