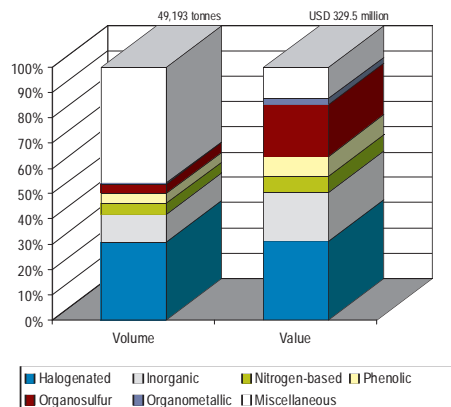


# Specialty Biocides 2008: Japan Market Analysis and Opportunities

## 2008 Fact Sheet

### The Market

Growth opportunities are limited for biocide suppliers in Japan as industry moves to other regions. The market was USD 330 million in revenues in 2007 following a decline in growth since 2004. Market volumes were approaching 50,000 tonnes.



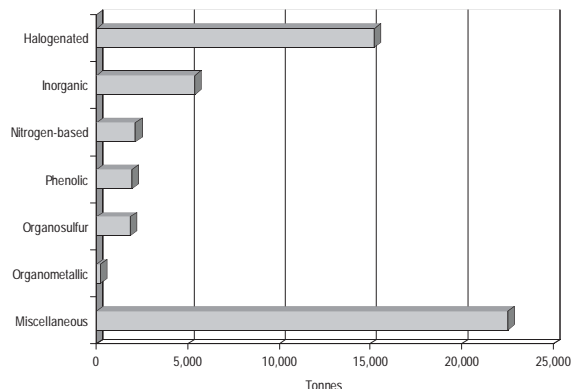
### Companies

More than 50 companies operate within the Japanese biocides market, supplying either single actives or formulated products. Arch Chemicals Japan is the leading player, with an 11% share, and the company's key products include CuPT, ZnPT, BIT, and IPBC.

Application segment	Top five companies	Combined market share, % (value basis)
Industrial preservation	Arch Chemicals Japan Furukawa Rohm and Haas Ishizuka Glass Sinanen Zeomic	60
Water treatment	Shikoku Chemicals Nissan Chemical Chemirea Rohm and Haas KI Chemical	58
Other applications	Lonza Arch Chemicals Lanxess Timber Viance	14

### Products

Miscellaneous biocides are the most consumed among all biocide product types. Consumption of miscellaneous biocides is estimated at 22,525 tonnes, valued at JPY 4,742 million (USD 41.22 million) in 2007. Halogenated biocide consumption is the second largest by volume and the largest by value.



### Future Outlook

In September 2008, the Cabinet Office in Japan revised April-June GDP data to show a decline of 0.7% rather than 0.6%. Services remains the biggest contributor to GDP, in line with the United States and Europe. Two scenarios were used to develop growth forecasts for specialty biocides demand in Japan from 2007 to 2012.

