

# MGC Group Data Book 2014

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**2014**

# CORPORATE INFORMATION

## Company Name

MITSUBISHI GAS CHEMICAL COMPANY, INC.

## Address

Mitsubishi Building, 5-2 Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8324, Japan

## Original Establishment

January 15, 1918

## Incorporation

April 21, 1951

## Capital

¥41.97 billion (as of end of March, 2014)

## Fiscal Year

Accounts closed in March

## Number of Consolidated Subsidiaries and Affiliates

Consolidated subsidiaries: 40 Affiliates: 14 (as of end of March, 2014)

## Number of Employees

Non-consolidated: 2,434 Consolidated: 5,445 (as of end of March, 2014)

## Main Banks

The Bank of Tokyo-Mitsubishi UFJ, Ltd.  
Mizuho Bank, Ltd.  
Mitsubishi UFJ Trust and Banking Corporation  
The Norinchukin Bank  
The Bank of Yokohama, Ltd.

## Main Operations

- 1) Manufacturing and sales of the following products:
  - Organic and inorganic chemicals, petroleum-derived chemicals
  - Chemical fertilizers, agricultural chemicals, feeds, feed additives
  - Synthetic resins, synthetic rubber and other high-molecular polymers
  - Dyes, pigments, paints and adhesives
  - Pharmaceutical products, quasi-drugs, biochemical products, food and food additives
  - Detergents, bleaches, gas absorbers
  - Materials and elements used for civil engineering, construction, agriculture and fisheries, distribution industry and electric appliances and equipment
  - Ceramic products
  - Information device, component, apparatus
  - All other products related to the aforementioned materials and products
- 2) Mining and sales of natural gas, petroleum and other minerals and offering consultations on related matters
- 3) Development, sales and consultations related to geothermal energy and other forms of energy
- 4) Design, manufacture, sales, operation, supervision and consulting of various machinery used in chemical industries and environmental preservation
- 5) Research and development, sales, commissioned research and consulting related to various technologies relevant to chemical industries
- 6) Conducting various tests and commissioned analyses and consultation related to environmental measurements and safety of chemical products
- 7) Design, implementation, contracting and supervision of civil engineering work and various other construction assignments
- 8) Sales, leasing, management and brokerage of real estate properties
- 9) Shipping, freight transportation, warehouse operation and tourist operations
- 10) All other business operations relevant to the aforementioned operations

## Executives

Representative Director, Chairman

**Kazuo Sakai**

Representative Director, President

**Toshikiyo Kurai**

Representative Directors, Senior Managing Executive Officers

**Takayuki Watanabe**

In charge of Compliance; Chairman of Internal Control Promotion Committee; Chairman of The Committee on Future R&D; In charge of Internal Audit Division, Research & Development Division; General Manager of Tokyo Techno Park

**Yukio Sakai**

President of Natural Gas Chemicals Company

Directors, Managing Executive Officers

**Katsuhiko Sugita**

In charge of Risk Management; In charge of Finance & Accounting Center, Administrative & Personnel Center, Purchasing & Logistics Center

**Yoshihiro Yamane**

President of Aromatic Chemicals Company

**Kunio Kawa**

Deputy Chairman of Compliance Committee; In charge of Corporate Planning Division, Corporate Communications Division

**Katsushige Hayashi**

President of Specialty Chemicals Company

**Masahiro Johno**

President of Information & Advanced Materials Company

**Kenji Inamasa**

In charge of Production Technology Division, Environment & Safety Division

Outside Director

**Yoshimasa Nihei**

Executive Officers

**Takafumi Abe**

General Manager of Planning & Development Division, Natural Gas Chemicals Company

**Susumu Yoshida**

General Manager of Corporate Planning Division

**Motoyoshi Onobori**

Plant Manager of Yokkaichi Plant, Specialty Chemicals Company

**Yasuhiro Sato**

General Manager of Finance & Accounting Center

**Tsuneaki Iwakiri**

General Manager of Engineering Plastics Division, Specialty Chemicals Company; Manager of Basic Products Department, Engineering Plastics Division, Specialty Chemicals Company

**Masashi Fujii**

General Manager of Basic Chemicals Division, Natural Gas Chemicals Company; Manager of Business Development Department, Basic Chemicals Division, Natural Gas Chemicals Company

**Takuji Shitara**

General Manager of Research & Development Division; Manager of R&D Administration Department, Research & Development Division; General Manager of MGC Chemical Analysis Center

**Chiharu Kubota**

General Manager of Electronic Materials Division, Information & Advanced Materials Company

**Masamichi Mizukami**

Plant Manager of Kashima Plant, Specialty Chemicals Company

**Toshiya Takagi**

In charge of Next Generation Business Project Group; General Manager of Next Generation Business Project Group

**Masato Inari**

Plant Manager of Niigata Plant, Natural Gas Chemicals Company

**Yasushi Kosaka**

General Manager of Inorganic Chemicals Division, Specialty Chemicals Company

Executive General Manager

**Akira Ishiwada**

BRUNEI METHANOL COMPANY SDN. BHD. CEO

Audit & Supervisory Board Members

**Kunio Oya**

Audit & Supervisory Board Member (Full-time)

**Jin Hata**

Audit & Supervisory Board Member (Full-time)

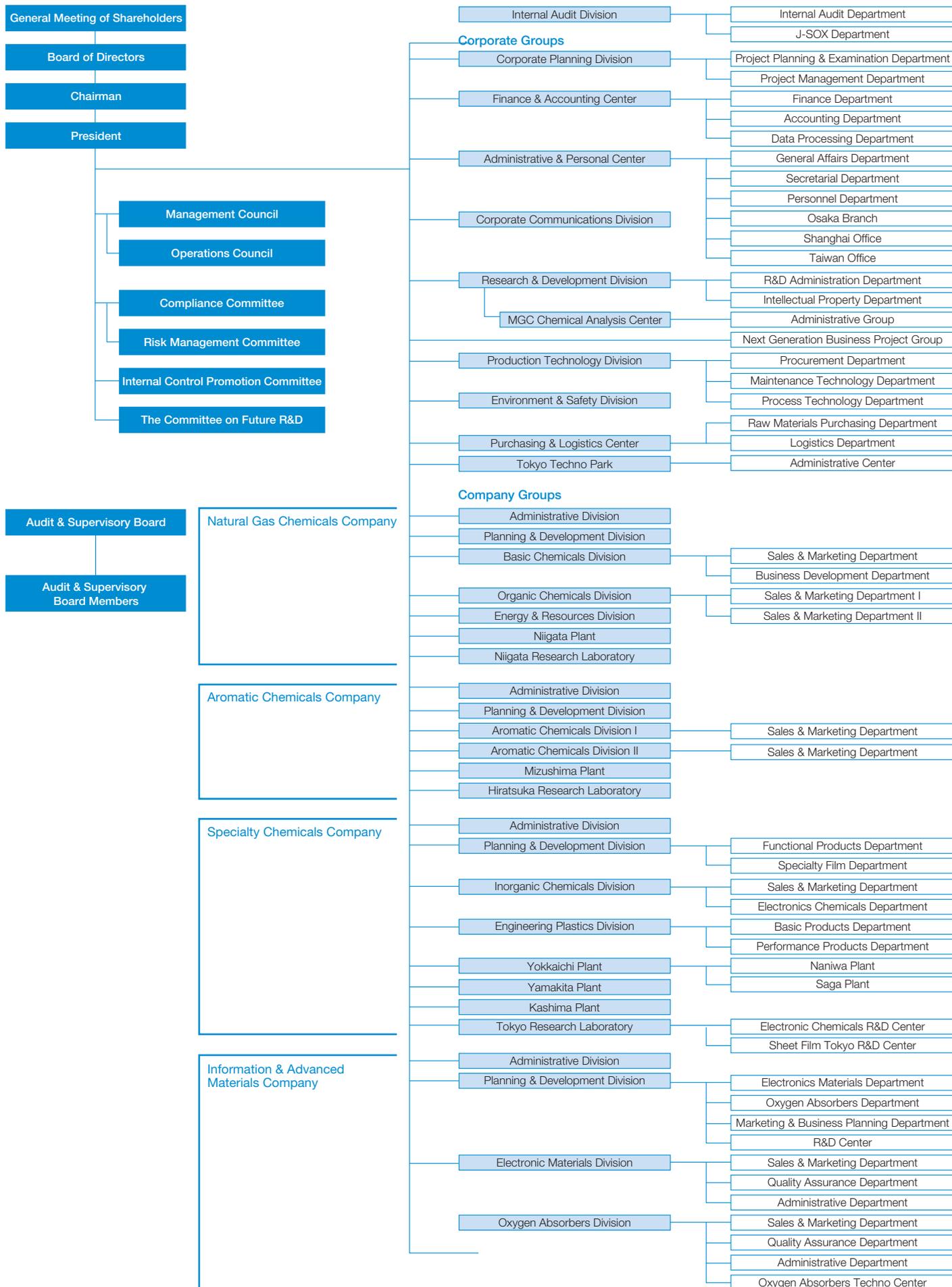
**Takashi Kimura**

Audit & Supervisory Board Member (Outside-Full-time)

**Yasuomi Matsuyama**

Audit & Supervisory Board Member (Outside-Part-time)

# ORGANIZATION CHART



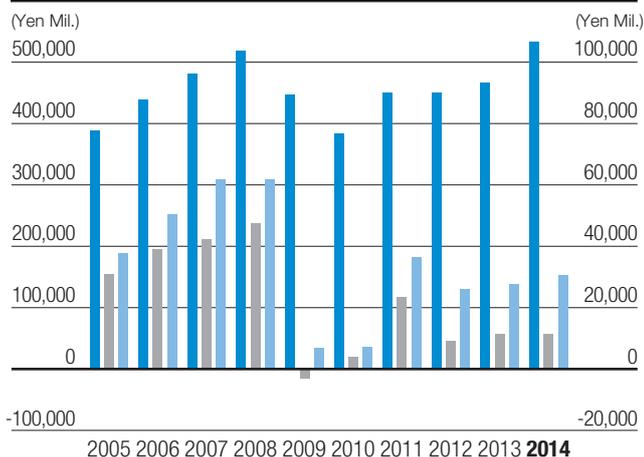
# FINANCIAL HIGHLIGHTS

Mitsubishi Gas Chemical Company, Inc. and Consolidated Subsidiaries

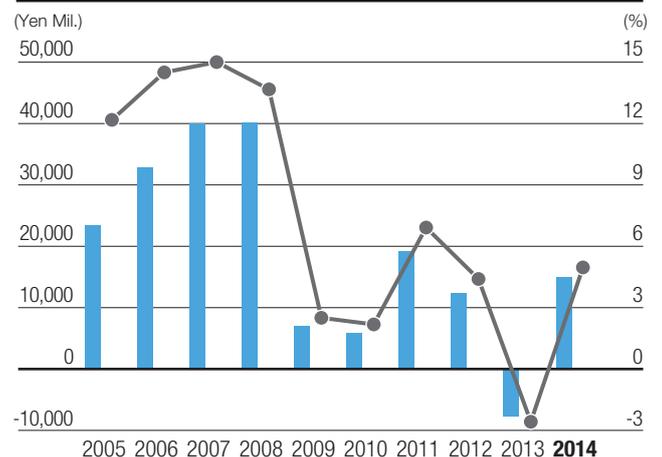
	Mar. 2005	Mar. 2006	Mar. 2007
Net sales (Millions of yen)	388,589	439,829	482,608
Operating income (Millions of yen)	30,868	38,970	42,220
Ordinary income (Millions of yen) (Note 1)	37,726	50,410	61,723
Net income (Millions of yen)	23,348	32,944	40,044
Equity in earnings of affiliates (Millions of yen)	11,834	15,122	23,200
Total assets (Millions of yen)	494,577	564,483	609,965
Net assets (Millions of yen) (Note 2)	203,306	251,202	292,696
Operating activity cash flow (Millions of yen)	29,119	36,055	21,797
Investing activity cash flow (Millions of yen)	(15,629)	(15,195)	(14,039)
Financing activity cash flow (Millions of yen)	(16,536)	(9,924)	(8,819)
Total cash and cash equivalents at end of year (Millions of yen)	28,696	40,590	41,266
Basic net income per share (Yen)	50.41	70.98	86.63
Diluted net income per share (Yen)	—	—	85.64
Net assets per share (Yen)	439.60	543.12	613.64
Return on equity (ROE) (%) (Note 3)	12.2	14.5	15.0
Return on assets (ROA) (%) (Note 4)	7.8	9.5	10.5
Operating income margin (%)	9.7	8.9	8.7
Equity ratio (%) (Note 3)	41.1	44.5	46.5
Number of employees	4,426	4,466	4,561

Notes : 1. Ordinary income, a common indicator in Japan, corresponds to income before income taxes and minority interests, less any extraordinary profit or loss.  
 2. Effective from the fiscal year ended March 2007, total net assets include deferred gains (losses) on hedges, share purchase warrants and minority interests in accordance with revisions to the relevant accounting standard.

## Net sales / Operating income / Ordinary income



## Net income / Return on equity (ROE)



■ Net sales    ■ Operating income    ■ Ordinary income

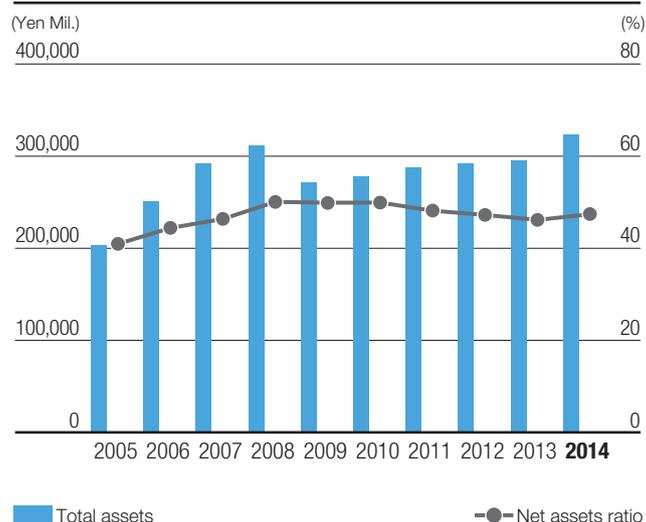
■ Net income    ● Return on equity (ROE)

	Mar. 2008	Mar. 2009	Mar. 2010	Mar. 2011	Mar. 2012	Mar. 2013	Mar. 2014
	519,329	447,647	384,528	451,033	452,217	467,979	<b>534,670</b>
	47,366	(3,103)	4,090	23,363	9,083	11,421	<b>11,416</b>
	61,759	6,975	7,365	36,394	26,116	27,651	<b>30,735</b>
	40,209	7,014	5,827	18,950	12,327	(7,793)	<b>14,971</b>
	21,312	14,706	8,794	17,873	20,532	19,045	<b>20,466</b>
	601,386	530,592	539,431	577,045	595,250	613,908	<b>658,117</b>
	312,021	272,083	278,094	288,257	292,111	294,895	<b>324,138</b>
	40,394	49,027	31,326	39,773	37,348	31,169	<b>27,182</b>
	(20,907)	(41,253)	(33,662)	(24,626)	(37,274)	(30,818)	<b>(29,883)</b>
	(22,251)	11,541	(15,354)	(1,849)	(9,876)	(14,356)	<b>7,124</b>
	37,235	53,065	36,048	46,768	35,701	26,907	<b>37,310</b>
	87.01	15.30	12.89	41.92	27.28	(17.25)	<b>33.14</b>
	85.13	14.97	12.61	41.00	27.01	—	<b>—</b>
	654.25	585.90	595.56	615.25	623.46	628.40	<b>691.88</b>
	13.7	2.5	2.2	6.9	4.4	(2.8)	<b>5.0</b>
	10.2	1.2	1.4	6.5	4.5	4.6	<b>4.8</b>
	9.1	(0.7)	1.1	5.2	2.0	2.4	<b>2.1</b>
	50.3	49.9	49.9	48.2	47.3	46.2	<b>47.5</b>
	4,686	4,902	4,920	4,979	5,216	5,323	<b>5,445</b>

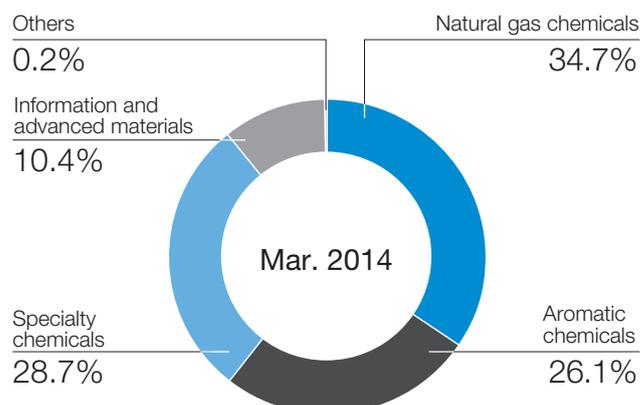
3. Up to the fiscal year ended March 2006, total net assets were used as equity as the basis of calculations. Effective from the fiscal year ended March 2007, total net assets include deferred gains (losses) on hedges, share purchase warrants, and minority interests in accordance with the revised accounting standard. With respect to equity, however, share purchase warrants and minority interests are deducted from total net assets in calculation of equity ratio.

4. Return on assets = Ordinary income / Average total assets

### Net assets / Equity ratio



### Sales by segment



# CORPORATE HISTORY

Year	History	
1910-1940	<p data-bbox="292 338 874 394" style="text-align: center;"><b>Mitsubishi Edogawa Chemical Co., Ltd.</b></p> <p><b>1918</b> Edogawa Barium Industry Co., Ltd. is established. The company later becomes Mitsubishi Edogawa Chemical. The plant later becomes Mitsubishi Gas Chemical's Tokyo Plant.</p> <p><b>1927</b> Begins production of formalin for the first time in Japan.</p> <p><b>1930</b> Establishes Osaka Plant.</p> <p><b>1933</b> Establishes Yamakita Plant; begins production of hydrogen peroxide using the electrolytic method for the first time in Japan.</p> <p><b>1937</b> Begins production of laminate material for printed wiring boards for the first time in Japan.</p>	<p data-bbox="938 719 1516 775" style="text-align: center;"><b>Japan Gas Chemical Co., Inc.</b></p>
1950	<p><b>1951</b> Establishes Naniwa Plant.</p> <p><b>1954</b> Takes a stake in Toyo Kagaku Industries, Inc. (current Toyo Kagaku, Inc.).</p>	<p><b>1951</b> Japan Gas Chemical Co., Inc. is established; establishes Enoki Plant; acquires natural gas assets.</p> <p><b>1952</b> Begins production of methanol from natural gas for the first time in Japan.</p> <p><b>1954</b> Lists shares on the Tokyo Stock Exchange. Establishes Osaka Office (current Osaka Branch).</p> <p><b>1957</b> Establishes Matsuhama Plant; begins production of ammonia from natural gas for the first time in Japan.</p> <p><b>1959</b> Integrates Enoki Plant and Matsuhama Plant and renames the integrated entity as Niigata Plant. Establishes Niigata Research Laboratory. Establishes Japan Hydrazine Co., Inc. (current Japan Finechem Co., Inc.)</p>
1960	<p><b>1961</b> Begins production of polycarbonate lupilon® using interfacial polymerization.</p> <p><b>1962</b> Begins production of hydrogen peroxide for electronic industry use.</p> <p><b>1963</b> Establishes Yokkaichi Plant; begins commercial production of hydrogen peroxide using the company's proprietary technology (anthraquinone method).</p> <p><b>1966</b> Takes a stake in Japan Circuit Industrial Co., Ltd.</p>	<p><b>1960</b> Nihon Plastic and Chemical Co., Ltd. establishes Mizushima Plant, which later becomes a Japan Gas Chemical plant in 1961 through merger.</p> <p><b>1962</b> Establishes Japan Styrene Paper Corporation (current JSP Corporation). Establishes Japan Pure Hydrogen Co., Ltd. (current Japan Pionics Co., Ltd.)</p> <p><b>1963</b> Establishes Hiratsuka Research Laboratory.</p> <p><b>1968</b> Establishes AG International Chemical Co., Inc. Begins production of high-purity meta-xylene for the first time in the world.</p>
1970	<p><b>1970</b> Relocates the corporate research laboratory to Kanamachi (current Tokyo Research Laboratory).</p> <p><b>1971</b> Begins production of polycarbonate lupilon® sheet based on the extrusion method.</p> <p data-bbox="292 1771 874 1827" style="text-align: center;"><b>Oct. 1971 Mitsubishi Gas Chemical Company, Inc. is established in a merger</b></p> <p data-bbox="292 1850 874 1906" style="text-align: center;"><b>Mitsubishi Gas Chemical Company, Inc.</b></p> <p><b>1977</b> Begins production of AGELESS® oxygen absorber; establishes Kashima Plant.</p>	<p><b>1970</b> Establishes Mizushima Aroma Co., Ltd. Begins production of MXDA.</p> <p data-bbox="938 1850 1516 1906" style="text-align: center;"><b>Major Affiliates</b></p> <p><b>1977</b> Establishes Japan U-PICA Co., Ltd. Hiratsuka U-PICA Co., Ltd., and Inuyama U-PICA Co., Ltd. The three companies later merge to form Japan U-PICA Company, Ltd.</p> <p><b>1979</b> Establishes Japan Saudi Arabia Methanol Co., Inc.</p>

Year	History	
1980	<p><b>1981</b> Begins production of polyacetal.</p> <p><b>1984</b> Begins production of MX nylon.</p> <p><b>1986</b> Establishes Saga Plant.</p>	<p><b>1980</b> Establishes SAUDI Methanol Company(AR-RAZI).</p> <p><b>1982</b> Establishes Mitsubishi Gas Chemical Singapore Pte. Ltd.</p> <p><b>1984</b> Establishes Mitsubishi Gas Chemical America, Inc.</p> <p><b>1987</b> Establishes Korea Engineering Plastics Co., Ltd. Establishes P.T. Peroksida Indonesia Pratama.</p> <p><b>1989</b> Establishes Samyoung Pure Chemicals Co., Ltd.</p>
1990	<p><b>1991</b> Begins production of lens monomer; changes Japanese company name.</p> <p><b>1997</b> Declares the Implementation of Responsible Care.</p>	<p><b>1990</b> Establishes Mitsubishi Gas Chemical Europe GmbH.</p> <p><b>1991</b> Establishes MGC Electrotechno Co., Ltd.</p> <p><b>1992</b> Establishes Metanol de Oriente, METOR, S.A. (METOR).</p> <p><b>1994</b> Establishes Mitsubishi Engineering-Plastics Corporation.</p> <p><b>1995</b> Establishes MGC Pure Chemicals America, Inc. Establishes Thai Polyacetal Co., Ltd.</p> <p><b>1997</b> Establishes MGC Pure Chemicals Singapore Pte. Ltd.</p> <p><b>1999</b> Establishes Yonezawa Dia Electronics Co., Inc.</p>
2000-	<p><b>2000</b> Introduces internal company system.</p> <p><b>2001</b> Establishes Electronic Chemicals R&amp;D Center under Tokyo Research Laboratory. All business locations are made ISO 14001 compliant.</p> <p><b>2003</b> Introduces executive officer system.</p> <p><b>2005</b> Establishes Shanghai Office. Changes the name of Tokyo Plant to Tokyo Development Center. Establishes MGC Chemical Analysis Center.</p> <p><b>2007</b> Establishes Sheet Film Tokyo R&amp;D Center under Tokyo Research Laboratory.</p> <p><b>2009</b> Establishes Tokyo Techno Park; places Tokyo Research Laboratory and Analysis Center under it; discontinues operation of Tokyo Development Center.</p> <p><b>2010</b> Establishes Taiwan Office.</p> <p><b>2012</b> Announces medium-term management plan "MGC Will2014".</p>	<p><b>2000</b> Establishes MGC Pure Chemicals Taiwan, Inc. Establishes Kyodo Kasankasuiso Corporation.</p> <p><b>2002</b> Establishes MGC Advanced Polymers, Inc.</p> <p><b>2005</b> Establishes MGC Filsheet Co., Ltd.</p> <p><b>2006</b> Establishes Brunei Methanol Company Sdn. Bhd. Establishes MGC Trading (Thailand) Ltd.</p> <p><b>2008</b> Establishes Suzhou MGC Suhua Peroxide Co., Ltd. Establishes Mitsubishi Gas Chemical Shanghai Commerce Ltd.</p> <p><b>2009</b> Establishes Mitsubishi Gas Chemical Engineering-Plastics (Shanghai) Co., Ltd.</p> <p><b>2012</b> Establishes MGC Electrotecho (Thailand) Co., Ltd.</p>

# AWARD-WINNING TECHNOLOGIES

Theme	Year	Award	Organizer
Methanol synthesis from natural gas	1955	Fuel Association Award	Fuel Association
A contact reformer for hydrogen carbonate	1958	Okochi Memorial Prize for Production	Okochi Memorial Foundation
	1961	The Japan Petroleum Institute Award	The Japan Petroleum Institute
Low biuret urea manufacture	1961	Science and Technology Agency Award	Science and Technology Agency
Technology related to the manufacture of formalin	1961	Society of Synthetic Organic Chemistry, Japan Award	The Society of Synthetic Organic Chemistry, Japan
Research related to natural gas	1965	The Fuel Society of Japan Award	The Fuel Society of Japan
Technology related to the manufacture of Hydrogen peroxide through a method of automatic oxidization	1965	Chemical Technology Award	The Chemical Society of Japan
	1966	Okochi Memorial Prize for Technology	Okochi Memorial Foundation
	1966	Science and Technology Award	Science and Technology Agency
Technology related to the manufacture of sodium hydrosulfite	1969	Okochi Memorial Prize for Technology	Okochi Memorial Foundation
The separation of isomers of xylene	1969	The Japan Petroleum Institute Award	The Japan Petroleum Institute
	1969	The SCEJ Technical Achievement Award	The Society of Chemical Engineers, Japan
	1969	Chemical Technology Award	The Chemical Society of Japan
	1970	Okochi Memorial Prize for Production	Okochi Memorial Foundation
	1970	Science and Technology Agency Award	Science and Technology Agency
	1970	The Fuel Society of Japan Award	The Fuel Society of Japan
	1971	The Technology Award	Japan Chemical Industry Association
The manufacture of xylene resin	1969	Chemical Technology Award	The Chemical Society of Japan
Oxalic acid production technology used in the manufacture of ethylene glycol	1972	The Ichimura Industrial Prize	The New Technology Development Foundation
The development of automatic voltage regulator of electrolytic cell	1972	The Technology Award	The Japan Soda Industry Association
The development of chemical polishing agents based on Hydrogen peroxide	1974	The Technology Award	Metal Finishing Society
Manufacturing technology related to the extrusion of polycarbonate sheet	1977	The Ichimura Industrial Prize	The New Technology Development Foundation
The development of the oxygen absorber/AGELESS®	1981	The Kinoshita Award	Japan Packaging Institute
	1984	The Technology Award	Japan Food Industry Academic Association
	1984	Japan Food Industry and Technology Distinguished Service Award	Shokuhin Sangyo Shimbunsha Co., Ltd
	1993	First Century Anniversary Award	Agricultural Research & Development Association
	1995	Food Industry Distinguished Service Award	Japan Food Journal Co., Ltd.
	2000	20th century food industry development award	Japan Food Journal Co., Ltd.
Methods related to the manufacture of carbon monoxide	1983	The Invention Award	Institute of Invention and Innovation
Ethanol production methods	1983	Science and Technology Agency Award	Science and Technology Agency

Theme	Year	Award	Organizer
The development and industrialization of production technology for aromatic aldehydes used to produce Trimellitic anhydride and Pyromellitic dianhydride	1987	The SCEJ Technical Achievement Award	The Society of Chemical Engineers, Japan
	1987	The Japan Petroleum Institute Award	The Japan Petroleum Institute
	1988	Chemical Technology Award	The Chemical Society of Japan
	1998	Science and Technology Agency Award	Science and Technology Agency
The development of production methods for methyl formate using anhydrous Methanol	1989	Technology Award	Catalysis Society of Japan
Research on classifications for cytochrome C1-microorganisms	1989	Saito Award	The Society of Fermentation Technology, Japan
Consideration of corporate in-house databases	1990	Selected to commemorate the fortieth anniversary	Information Science and Technology Association
The development of new production technology for polyacetal	1991	The Ichimura Industrial Prize	The New Technology Development Foundation
	1997	Science and Technology Agency Award	Science and Technology Agency
Exploration and development of the Iwafune Offshore Oilfield	1991	The Japan Petroleum Institute Award	The Japan Petroleum Institute
Packaging of steamed rice for microwave ovens by AGELESS®	1992	Good Packaging Award	Japan Packaging Institute
The development of new production methods for aromatic polycarbonates	1993	Okochi Memorial Prize for Production	Okochi Memorial Foundation
	1993	The Technology Award	Japan Chemical Industry Association
Catalytic reduction of nitrogen monoxide at room temperature using degraded activated charcoal	1994	The Japan Institute of Energy Award for Distinguished Paper	The Japan Institute of Energy
The development of meso phase production methods using aromatic hydrocarbons	1995	Bio Tsukuba Award	Tsukuba Foundation for Chemical and Bio-Technology
	1995	Chemical Technology Award	The Chemical Society of Japan
Custom factory integration processes	1996	Aoki-Katashi Award	The Japan Society of Polymer Processing
New synthetic methods for producing Methanol	1998	The SCEJ Technical Achievement Award	The Society of Chemical Engineers, Japan
The development of oxygen absorber film AGELESS OMAC®	2000	Japan Food Journal Award	Japan Food Journal Co., Ltd.
The development of High-refractive-index plastic lenses	2001	Chemical Technology Award	The Chemical Society of Japan
The development of BT resin and BT resin base Printed Wiring Board	2003	Science and Technology Agency Award	Science and Technology Agency
On-site production of new bleaching agent" Peroxymonosulfuric acid" and application of it to pulp bleaching	2011	Sasaki Prize	Japan Technical Association of the Pulp and Paper Industry
Transparent PI for flexible Display	2011	Best Paper Award in the Flexible Display Material Division from the 18th International Display Workshops (IDW'11)	SID(Society of Information Display)

## Licenses Offered

As a pioneer in the export of technological licenses and plants, MGC has been contributing to global industrial development by actively offering our technologies. Since 1957 we have offered over 220 licenses in Japan and overseas.

- Production process for hydrogen cyanide
- Production process for choline chloride
- Production process for sodium percarbonate
- Production process for dimethyl ether
- Production process for sodium hydrosulfite
- Production process for hexamine
- Production process for formalin
- Production process for methylamine
- Production process for acetone cyanhydrin
- Production process for hydrogen peroxide
- Production process for purified terephthalic acid
- Production process for dimethylformamide
- Production process for super-pure hydrogen peroxide
- Production process for polyacetal
- Production process for methyl methacrylate
- Production process for dimethylacetamide
- Production process for carbon monoxide (from methanol)
- Production process for plasticizers (DOP/DIDP/DINP)
- Technology for separation and isomerization of xylene
- Production process for hydrogen (from methanol)
- Production process for 2,3,6-trimethylphenol
- Production process for polycarbonate
- Production process for methanol
- Production process for oxygen absorbers

# PRODUCTS OF MGC GROUP

Product	Applications	Contact	Telephone
<b>Basic chemicals (amine)</b>			
Folmamide	Pharmaceuticals, agricultural chemicals	Organic Chemicals Division	81-3-3283-4874
Dimethylacetamide	High grade solvent, pharmaceuticals, agricultural chemicals		81-3-3283-4746
Dimethylaminoethanol	Flocculating agent, ion-exchange resin, urethane catalyst		81-3-3283-4746
Dimethylfolmamide	High grade solvent		81-3-3283-4746
Monomethylfolmamide	High grade solvent		81-3-3283-4746
Monomethylamine	Rubber vulcanization accelerator, pharmaceuticals, agricultural chemicals, photographic chemicals, dye compound		81-3-3283-4746
Dimethylamine	Fiber treatment agent, macromolecule flocculating, surfactant		81-3-3283-4746
Trimethylamine	Crosslinker for resin, pharmaceuticals, agricultural chemicals, ion-exchange resin, choline chloride		81-3-3283-4746
41% monomethylamine methanol solution	Pharmaceutical intermediate		81-3-3283-4838
Trimethylamine hydrochloride solution	Paper durability enhancement agent		81-3-3283-4838
3-Chloro-2-hydroxyethylpropyl trimethyl ammonium chloride	Paper durability enhancement agent		81-3-3283-4838
Hexamine (hexamethylenetetramine)	Resin hardener, foaming agent, rubber vulcanization accelerator, pharmaceuticals		Basic Chemicals Division
<b>Basic chemicals (methacrylic acid)</b>			
2-Hydroxyisobutyric acid methyl ester	High grade solvent, photographic chemicals, pharmaceuticals, agricultural chemicals	Organic Chemicals Division	81-3-3283-4884
Methacrylic acid	Coating compounds, adhesive agent, adhesive modifier		81-3-3283-4884
Allyl methacrylate	Coating compounds, AS adhesive modifier, silane coupling agent		81-3-3283-4884
2-Ethylhexyl methacrylate	Coating compounds, adhesive agent, fiber treatment agent		81-3-3283-4884
Glycidyl methacrylate	Coating compounds, antistatic additive, ion-exchange resin		81-3-3283-4884
Diethylaminoethyl methacrylate	Antistatic additive, dyeing assistant, coating compounds		81-3-3283-4884
Cyclohexyl methacrylate	Optical polymers, adhesive agent, coating compounds		81-3-3283-4884
Dimethylaminoethyl methacrylate	Antistatic additive, flocculating agent, paper durability enhancement agent		81-3-3283-4884
Stearyl methacrylate	Fiber treatment agent, coating compounds, adhesive compound		81-3-3283-4884
2-Hydroxyethyl methacrylate	Coating compounds, photosensitive resins, contact lens		81-3-3283-4884
i-Butyl methacrylate	Coating compounds, printing ink, fiber treatment agent		81-3-3283-4884
n-Butyl methacrylate	Coating compounds, lubricating oil additive, surface treatment agent		81-3-3283-4884
Methacrylate blend	Coating resins, adhesive modifier		81-3-3283-4884
Benzyl methacrylate	Optical polymers, adhesive agent, coating compounds		81-3-3283-4884
Methyl methacrylate	Acrylic board, molding compound, coating compounds		81-3-3283-4884
Lauryl methacrylate	Coating compounds, adhesive agent		81-3-3283-4884
s-Lauryl methacrylate	Coating compounds, adhesive agent, lubricating oil additive		81-3-3283-4884
<b>Basic chemicals (polyol)</b>			
Glycol esters	UV cure resin	Organic Chemicals Division	81-3-3283-4791
Dioxane glycol	UV cure resin, polyurethane		81-3-3283-4791
di-Trimethylol propane	UV cure resin, polyurethane, ester for lubricant		81-3-3283-4791
Spiroglycol	Polyester, polyurethane, UV cure resin, modifying agent for synthetic resin		81-3-3283-4791
Trimethylolethane	Resin for alkyd paint, titanium oxide surface treatment agent		81-3-3283-4791
Trimethylolpropane	Resin for alkyd paint, polyurethane, UV cure resin, ester for lubricant		81-3-3283-4791
Neopentylglycol	Resin for alkyd paint, resin for powdered paint, unsaturated polyester, polyurethane		81-3-3283-4791
<b>Basic chemicals (aromatic aldehydes)</b>			
para-Isobutylbenzaldehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials	Aromatic Chemicals Division I	81-3-3283-4714
para-Ethylbenzaldehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, Additives for resin, electronic materials		81-3-3283-4714
Cuminaldehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials		81-3-3283-4714
2,4-Dimethylbenzaldehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials		81-3-3283-4714
3,4-Dimethylbenzaldehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials		81-3-3283-4714
2,4,6-Trimethylbenzaldehyde	Agricultural chemicals, pharmaceuticals, synthesis fragrances, pigment, additives for resin, electronic materials		81-3-3283-4714
para-Tolualdehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials		81-3-3283-4714
N-Propylbenzaldehyde (NPBAL)	Synthesis fragrances, Pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials		81-3-3283-4714
para-Phenylbenzaldehyde	Synthesis fragrances, pharmaceuticals, agricultural chemicals, pigment, additives for resin, electronic materials	81-3-3283-4714	

Product	Applications	Contact	Telephone
<b>Basic chemicals (aromatic carboxylic acid)</b>			
Ortho-Toluic Acid	Pharmaceuticals, agricultural chemicals, vinyl stabilization agent	Aromatic Chemicals Division I	81-3-3283-4714
Purified isophthalic acid	Modifying polyester	Aromatic Chemicals Division II	81-3-3283-4919
Purified terephthalic acid	Polyester	Aromatic Chemicals Division II	81-3-6414-4702
Cyclohexane-1,2,4-tricarboxylic acid	Resin modifier	Aromatic Chemicals Company, Planning & Development Division	81-3-3283-4815
Cyclohexane-1,2,4-tricarboxylic acid-1,2-anhydride	Epoxy resin hardener, resin modifier		81-3-3283-4815
2,6-Decahydronaphthalene dicarboxy acid dimethyl ester	Resin modifier		81-3-3283-4815
Phthalic anhydride	Plasticizer, coating compounds, unsaturated polyester	Aromatic Chemicals Division II	81-3-3283-4702
<b>Basic chemicals</b>			
Isophthalonitrile	Synthetic resin	Aromatic Chemicals Division I	81-3-3283-4754
Ortho-xylene	Phthalic anhydride, synthetic resin	Aromatic Chemicals Division II	81-3-3283-4702
3,5-Xylenol	Synthetic resin, agricultural chemicals	Aromatic Chemicals Division I	81-3-3283-4817
Acetic acid	Acetate fiber, reagent, dye compound, solvent	Aromatic Chemicals Division II	81-3-3283-4702
Para-xylene	Terephthalic acid, synthetic resin		81-3-3283-4702
1,3-Bis (Aminomethyl) cyclohexane	Epoxy resin hardener, organic synthesis, intermediary substance	Aromatic Chemicals Division I	81-3-3283-4800
Meta-xylene	Agricultural chemicals-pigment		81-3-3283-4800
Meta-xylenediamine	Synthetic resin, epoxy resin hardener, organic synthesis intermediate		81-3-3283-4800
Ammonia	Fertilizer, synthetic fibers, refrigerator-freezer refrigerant, acrylonitrile	Organic Chemicals Division	81-3-3283-4838
Aqueous ammonia	Denitration, active sludge nutrient		81-3-3283-4838
Methanol	Formalin, acetic acid, methyl methacrylate, methyl chlorides, coating compounds, synthetic resin, solvent, pharmaceuticals	Basic Chemicals Division	81-3-3283-4771
Formalin	Plywood binding agent, synthetic resin, vinylon, hexamine, pentaerythritol, paraform, pharmaceuticals		81-3-3283-4731
Folmalol M	Coating compounds		81-3-3283-4731
Folmalol IB	Coating compounds		81-3-3283-4731
Folmalol NB	Coating compounds		81-3-3283-4731
Methyl formate	Casting hardener, CO source	Organic Chemicals Division	81-3-3283-4746
Dimethyl ether (for aerosol propellant)	Aerosol propellant		81-3-3283-4838
Dimethyl ether (for fuel)	Diesel engine fuel	Fuel DME Production Co., Ltd	81-3-3283-4824
Paraform (paraformaldehyde)	Coating compounds, adhesive agent, textile-processing resins, phenol resins	Basic Chemicals Division	81-3-3283-4731
Hydrogen peroxide	Bleaching agent for textiles, paper and pulp, other industrial applications	Inorganic Chemicals Division, Sales & Marketing Department	81-3-3283-4759
Formic acid	Dyeing assistant, pharmaceuticals, tanning	Fine Chemicals Sales & Marketing Division Ryoko Chemical Co., Ltd.	81-3-6861-0054
Oxalic acid	Alumite oxidizing film-forming agent, confectionery manufacture, synthetic resin, rare earth, dyeing assistant, pharmaceutical, pharmaceuticals		81-3-6861-0054
Hydrazine hydrate	Boiler compound, foaming agent, pharmaceuticals, agricultural chemicals, inflator for SRS airbags	Otsuka-MGC Chemical Co., Inc.	81-6-4706-7562
<b>Plastics/monomers/resin hardener</b>			
ALTESTER® (heat-resistant PET resin)	Industrial and food packaging materials, optical sheets and films	Organic Chemicals Division	81-3-3283-4902
Optimas® (high-performance acrylic polymer)	Light guide plate, protective cover for liquid crystal, lenses, automotive components, optical sheets and films		81-3-3283-4902
Nylon-MXD6 (N-MXD6)	Molding compound, packaging materials (gas barrier film, sheet and PET bottle)	Aromatic Chemicals Division I	81-3-3283-4799
Gaskamine 240	Epoxy resin hardener		81-3-3283-4754
Gaskamine 328	Epoxy resin hardener, urethane resin hardener		81-3-3283-4754
TETRAD®-C	Coating compound, adhesive agent, cast molding		81-3-3283-4754
TETRAD®-X	Coating compound, adhesive agent, cast molding		81-3-3283-4754
MAXIVE® (gas barrier epoxy-based resin)	Laminate adhesive, coating, anti-corrosive paint	Aromatic Chemicals Division	81-3-3283-4815
LEXTER®	Films, sheets, fiber, molding material	Aromatic Chemicals Division I, Planning & Development Division	81-3-3283-4799 /4804
OPE (oligo-phenylene ether)	Resin for electrical and electronic parts	Specialty Chemicals Company, Planning & Development Division	81-3-3283-4853
Lumiplus® (high refractive index monomer)	Optical material		81-3-3283-4869
DIAPURESTE® (adamantane derivatives)	Photoresist monomer	Inorganic Chemicals Division, Sales & Marketing Department	81-3-3283-4759
Lens monomer	Monomer for ultra-high refractive plastic glasses lenses		81-3-3283-4759
BT Resin	Insulating materials, printed circuit board materials, insulating varnish, coating compounds, adhesive agent	Electronic Materials Division	81-3-3283-4740
Nikanol® (xylene resin)	Acrylic Adhesive, epoxy resin modifier	Fudow Co., Ltd.	81-45-548-4210

# PRODUCTS OF MGC GROUP

Product	Applications	Contact	Telephone
<b>Inorganic salts</b>			
Ammonium persulfate	Synthetic resin polymerization catalyst, etching agent, adhesive removal agent	Inorganic Chemicals Division, Sales & Marketing Department	81-3-3283-4759
Potassium persulfate	Synthetic resin polymerization catalyst, etching agent, adhesive removal agent		81-3-3283-4759
Sodium persulfate	Synthetic resin polymerization catalyst, etching agent, adhesive removal agent		81-3-3283-4759
Sodium formate	Mordant, tanning		81-3-3283-4759
Sodium hydrosulfite	Dyeing assistant, reduction cleaner for synthetic fibers, pulp/textile bleaching agent, reducing agent		81-3-3283-4759
Perbon (sodium perborate monohydrate)	Breaching, oxidant, detergent, oxygen generator	Ryoko Chemical Co., Ltd.	81-3-6861-0050
Ammonium sulfate	Fertilizer	Organic Chemicals Division	81-3-3283-4838
<b>Organic titanates</b>			
Tetraisopropyl titanate	Catalyzer, crosslinking agent, surface reforming agent, coupling agent	Inorganic Chemicals Division, Sales & Marketing Department	81-3-3283-4759
Tetra-n-butyl titanate	Catalyzer, crosslinking agent, surface reforming agent, coupling agent		81-3-3283-4759
Triethanol aminato titanium	Catalyzer, crosslinking agent, surface reforming agent, coupling agent		81-3-3283-4759
Titanium acetylacetonate	Catalyzer, crosslinking agent, surface reforming agent, coupling agent		81-3-3283-4759
Titanium ethyl acetoacetate	Catalyzer, crosslinking agent, surface reforming agent, coupling agent		81-3-3283-4759
Octylene glycol titanate	Catalyzer, crosslinking agent, surface reforming agent, coupling agent		81-3-3283-4759
Tetraoctyl titanate	Catalyzer, crosslinking agent, surface reforming agent, coupling agent		81-3-3283-4759
<b>Special polycarbonates</b>			
Iupizeta® EP series (special polycarbonates)	Optical lens, optical films and sheets	Engineering Plastics Division	81-3-3283-4853
Iupizeta® FPC series (special polycarbonates)	Electrophotography photoreceptor, various binder, film, sheet, optical use, various electronic device part		81-3-3283-4853
Iupizeta® PCZ series (special polycarbonates)	Electrophotography photoreceptor, various binder, film, sheet, optical use, various electronic device part		81-3-3283-4853
<b>Engineering plastic</b>			
Iupilon® (polycarbonate)	Electrical and electronic components, OA equipment, camera, automotive, optical disk, dialysis treatment equipment, building materials, miscellaneous goods	Mitsubishi Engineering-Plastics Corporation	81-3-6274-9000
Iupiace® (modified-polyphenylene ether)	OA equipment, electrical parts, automotive parts		81-3-6274-9000
Iupital® (polyacetal)	Functional parts (OA components, automotive, machine)		81-3-6274-9000
Reny® (high-performance polyamide)	Automotive components, machinery parts, electronics parts, fishing reel, nail, screw, bolt		81-3-6274-9000
<b>Sheets/films</b>			
Neopulim® (transparent polyimide film)	Printed circuit board material for various electronic devices	Aromatic Chemicals Company, Planning & Development Division	81-3-3283-4816
Iupilon® Sheet	Face plates, automotive components, machine parts, electronic parts, LCD front plates	Engineering Plastics Division Sheet-Film Sales Group	81-3-3283-4798
Iupilon® film	Face plates, optical film for LCDs		81-3-3283-4798
<b>Plasticizers</b>			
Diocetyl Isophthalate (DOIP)	Polyvinyl chloride plasticizer	CG Ester Corporation	81-3-5203-2860
Diisononyl Phthalate (DINP)	Polyvinyl chloride plasticizer		81-3-5203-2860
n-Diethyl phthalate (DOP)	Polyvinyl chloride plasticizer		81-3-5203-2860
Dibutyl phthalate (DBP)	Polyvinyl chloride plasticizer		81-3-5203-2860
Linevol phthalate (PL200)	Polyvinyl chloride plasticizer		81-3-5203-2860
Triocetyl trimellitate	Polyvinyl chloride plasticizer	Aromatic Chemicals Division II	81-3-3283-4702
<b>Health food ingredients</b>			
Pyrroloquinoline quinone (PQQ)	Food	Natural Gas Chemicals Company, Planning&Development Division	81-3-3283-4776
S-adenosylmethionine (SAME)	Food		81-3-3283-4776
<b>Environmental agents, water treatment agents and disinfectants</b>			
CONTLIME®	Inhibitor of slime, scale, legionella and corrosion	Dia Aqua Solutions Co. Inc.	81-3-3272-8261
DESLIME®	Desliming agent, pipe cleaning agent		81-3-3272-8261
Deo-Power®	Deodorization of drainage and wastewater		81-3-3272-8261
Peracetic acid	Oxidizing agent, bleaching agent, antibacterial agent	Inorganic Chemicals Division, Sales & Marketing Department	81-3-3283-4759

Product	Applications	Contact	Telephone
<b>Catalase (hydrogen peroxide decomposing agent)</b>			
ASC Super (catalase)	Hydrogen peroxide decomposing agent (industrial use)	Ryoko Chemical Co., Ltd.	81-3-3283-0054
ASC Hair	Hydrogen peroxide decomposing agent (hair treatment)		81-3-3283-0054
Solica® (granule-type formulation of hydrogen peroxide decomposing agent)	Hydrogen peroxide decomposing agent (granule-type)		81-3-3283-0054
<b>Electronic chemicals</b>			
Super-pure hydrogen peroxide	Cleaner for use in electronic industry, etching agent, resist stripping agent	Inorganic Chemicals Division Electronics Chemical Department	81-3-3283-4755
Super-pure ammonium hydroxide	Cleaner for use in electronic industry, etching agent		81-3-3283-4755
ELM clean	Cleaner for semiconductor and flat-panel display, etching agent, resist stripping agent		81-3-3283-4755
Chemical polishing agent (clean etch series)	Abrasive compound for printed wiring board, etching agent, resist development and stripping agent, Metal-surface treatment agent		81-3-3283-4755
<b>Materials for printed wiring board</b>			
High-performance epoxy material for multi-layered PWB	Printed wiring board	Electronic Materials Division	81-3-3283-4740
BT materials for high frequency circuits	Printed wiring board		81-3-3283-4740
BT materials for Chip-On-Board, Burn-In-Board and multi-layered PWB	Printed wiring board		81-3-3283-4740
BT materials for Chip-LED	Printed wiring board		81-3-3283-4740
BT materials for IC Plastic Package	Printed wiring board		81-3-3283-4740
BT materials for High Speed IC Plastic Package	Printed wiring board		81-3-3283-4740
Mass molding laminates	Multi-layered printed wiring board		81-3-3283-4740
LE (lubricated entry) SHEET	Entry sheet for mechanical drilling of printed circuit boards		81-3-3283-4740
Laser sheet	Printed circuit board laser machining support material		81-3-3283-4740
<b>Oxygen absorbers</b>			
AGELESS® (oxygen absorber)	Keep freshness, aroma, flavor and taste, prevention of mold, vermination, oxidation and discoloration	Oxygen Absorbers Division	81-3-3283-4842
AGELESS-OMAC® (oxygen absorber film)	Liquid food, pharmaceuticals		81-3-3283-4842
AGELESS EYE® (oxygen indicator)	Packaging control, seal and airtight check of packaging container		81-3-3283-4842
AGELESS DRY® (calcium oxide desiccant)	Desiccant		81-3-3283-4842
AGELESS EVA® (alcohol generating agent)			81-3-3283-4842
Anaero Pack® (anaerobic cultivation system)	Anaerobic cultivation system		81-3-3283-4842
RP System® (RP agent-gas-barrier bags)	Metals/electronic components, deterioration prevention/insecticide for cultural assets		81-3-3283-4842
PharmaKeep® (for pharmaceuticals/medical equipment)	Preservation of pharmaceuticals and medical equipment		81-3-3283-4842
<b>Gas, gas generator</b>			
Liquefied carbon dioxide	Food, welding, casting, barium carbonate	Organic Chemicals Division	81-3-3283-4838
Dry Ice/Dry Pellet	Cooling		81-3-3283-4838
MH-MD process (H <sub>2</sub> gas and CO gas manufacturing device for methanol use)	High-purity hydrogen gas and CO gas production equipment	Basic Chemicals Division	81-3-3283-4831
<b>Catalyzer</b>			
Catalyzer (methanol synthesis)	Methanol synthesis	Basic Chemicals Division	81-3-3283-4831
Catalyzer (H <sub>2</sub> -CO generation)	H <sub>2</sub> -CO generation		81-3-3283-4831
<b>Others</b>			
Diaprone (reducing agent for high fluidity concrete)	Reducing agent for high fluidity concrete	Natural Gas Chemicals Company, Planning&Development Division	81-3-3283-4776

# MAJOR GROUP COMPANIES

## In Japan

 manufacturing/processing
  trading
  information/service
  distribution
  others

Classification	Company name	Business description		Company	Address	Zip Code	Telephone
C	A.G. INTERNATIONAL CHEMICAL CO., INC.	Manufacture of purified isophthalic acids		Aromatic Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4919
C	EIWA CHEMICAL INDUSTRY CO., LTD.	Manufacturing of blowing agents		Specialty Chemicals Company	[Head office] Daido Seimei Co. Kyoto Building 9F Sanjo-sagaru karasuma-dori, Nakagyo-ku, Kyoto-shi	604-8161	81-75-256-5131
C	A&C CO., INC.	Manufacturing of choline chloride		Natural Gas Chemicals Company	[Head office] 4061-2 Tayuhama, Kita-ku Niigata-shi, Niigata	950-3112	81-25-259-7187
	AGELESS SERVICE CENTER CO., LTD.	Technical service for AGELESS		Information & Advanced Materials Company	[Head office] 3-6-1 Kanda Surugadai Chiyoda-ku, Tokyo	101-0062	81-3-3251-0761
C	MGC ELECTROTECHNO CO., LTD.	Manufacturing of copper-clad laminates		Information & Advanced Materials Company	[Plant] 9-41 Sugiyama, Yone, Nishigo-mura Nishishirakawa-gun, Fukushima	961-8031	81-248-25-5000
	MGC ENGINEERING CO., LTD.	Engineering/maintenance		Natural Gas Chemicals Company	[Head office/plant] 1318 Tayuhama, Kita-ku Niigata-shi, Niigata	950-3112	81-25-259-2711
E	OTSUKA-MGC CHEMICAL CO., INC.	Manufacturing and sales of hydrazine hydrate		Specialty Chemicals Company	[Head office] Nihon-seimei Yodoyabashi Building 3-5-29 Kitahama, Chuo-ku Osaka-shi, Osaka	541-0041	81-6-4706-7562
	MGC COMPUTER SERVICE CO., LTD.	Computer system service		Corporate	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4845
	DU PONT-MGC CO., LTD.	Manufacturing and sales of anhydrous pyromellitic acid		Aromatic Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4723
C	MGC FINANCE CO., LTD.	Financing for group companies		Corporate	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-5093
C	MGC PHARMA CO., LTD.	Contract research and sample production for antibody drugs		Natural Gas Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4821
C	MGC FILSHEET CO., LTD.	Manufacturing of polycarbonate sheets and films		Specialty Chemicals Company	[Head office/plant] 4-2242 Mikajima Tokorozawa-shi, Saitama	359-1164	81-42-948-2151
	MGC LOGISTICS SERVICE MIZUSHIMA CO., LTD.	Transportation/storage		Aromatic Chemicals Company	[Head office] 3-10 Mizushima-kaigandori Kurashiki-shi, Okayama	712-8071	81-86-446-3825
	MGC LOGISTICS YAMAKITA CO., LTD.	Operation duties		Specialty Chemicals Company	[Head office] 950 Kishi, Yamakita-machi Ashigarakami-gun, Kanagawa	258-0112	81-465-75-2635
	OSHIKA FORMALIN CO., LTD.	Sales of formalin		Natural Gas Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4775
C	MARINE TRANSPORT AND TERMINAL CO., LTD.	Storage terminal for chemicals		Natural Gas Chemicals Company	[Head office] 2881-30 Hamabe, Taroudai, Kita-ku Niigata-shi, Niigata	950-3101	81-25-255-2041
	KAGAKU UNYU CO., LTD.	Transportation/storage		Aromatic Chemicals Company	[Head office] 3-1-11 Mizushima-nakadori Kurashiki-shi, Okayama	712-8072	81-86-448-3655
C	KINOE TERMINAL CO., LTD.	Storage terminal for methanol		Natural Gas Chemicals Company	[Head office] Tokyo Sakurada Building, 1-1-3 Nishi-Shinbashi, Minato-ku, Tokyo	105-0003	81-3-3593-3035
C	KYODOU KASANKASUISO CORP.	Manufacturing of hydrogen peroxide		Specialty Chemicals Company	[Head office/plant] 35 Higashi Wada, Kamisu-shi, Ibaraki	314-0102	81-299-97-0785
	KYODO SAKUSAN CO., LTD.	Manufacturing and sales of acetic acid using the methanol carbonylation process		Aromatic Chemicals Company	[Head office] Kasumigaseki Business Center, 3-7-1 Kasumigaseki, Chiyoda-ku, Tokyo	100-0013	81-3-3503-7503
	GRANOPT CO., LTD.	Manufacturing and sales of RIG (Bi-substituted rare-earth iron garnet single crystals)		Information & Advanced Materials Company	[Head office/plant] 4-4 Ougibuchi, Ougida Noshiro-shi, Akita	016-0122	81-185-70-1800
C	KOKUKA SANGYO CO., LTD.	Shipping		Natural Gas Chemicals Company	[Head office] NBF Hibiya Building, 1-1-7 Uchisaiwaicho, Chiyoda-ku, Tokyo	100-0011	81-3-3593-3663

C=Consolidated subsidiary E=Equity method affiliate

Classification	Company name	Business description	Company	Address	Zip Code	Telephone
E	CG ESTER CORP.	Manufacturing and sales of plasticizers	 Aromatic Chemicals Company	[Head office] Landic Nihonbashi Building 2-16-13 Nihonbashi, Chuo-ku, Tokyo	103-0027	81-3-5203-2860
E	JSP CORP.	Manufacturing and sales of foamed plastic	 Corporate	[Head office] Shin Nisseki Building 3-4-2 Marunouchi, Chiyoda-ku, Tokyo	100-0005	81-3-6212-6300
	SHINSANSO KAGAKU CO.	Manufacturing of hydrogen peroxide	 Specialty Chemicals Company	[Head office/plant] 148-58 Yufutsu Tomakomai-shi, Hokkaido	059-1372	81-144-55-7337
	DIA AQUA SOLUTIONS CO., INC.	Sales and technical service of water treatment agent	 Specialty Chemicals Company	[Head office] Nippon Building, 2-6-2 Otemachi Chiyoda-ku, Tokyo	100-0004	81-3-3272-8261
C	TOKYO SHOKAI, LTD.	Sales of synthetic resins and electronic materials	 Corporate	[Head office] 3-6-1 Kanda Surugadai Chiyoda-ku, Tokyo	101-0062	81-3-3251-0171
E	TOHO EARTHTECH, INC.	Manufacturing and sales of natural gas and plastics	 Natural Gas Chemicals Company	[Head office] 1450 Kurotori Niigata Nishi-ku, Niigata	950-1123	81-25-377-7131
C	TOYO KAGAKU CO., LTD.	Manufacturing and sales of plastic injection molding	 Specialty Chemicals Company	[Head office/plant] 51-497 Doudou, Morowa, Togo-cho Aichi-gun, Aichi	470-0151	81-561-39-0531
	NISSHIN UNYU CO., LTD.	Transportation/storage	 Natural Gas Chemicals	[Head office] 1383 Tayuhama, Kita-ku Niigata-shi, Niigata	950-3112	81-25-259-3255
	NISSHIN COLORING CO., LTD.	Coloration processing of plastic	 Specialty Chemicals Company	[Head office] 2506-6 Ogohara, Komono-cho Mie-gun, Mie	510-1222	81-593-94-3100
C	JAPAN CIRCUIT INDUSTRIAL CO., LTD.	Manufacturing and sales of printed circuit boards	 Information & Advanced Materials Company	[Head office/plant] 2-1236 Kamiike-cho, Toyota-shi, Aichi	471-0804	81-565-88-3718
E	JAPAN SAUDI ARABIA METHANOL CO., INC.	Business administration for AR-RAZI	 Natural Gas Chemicals Company	[Head office] Tokyo Sakurada Building 1-1-3 Nishi-Shinbashi, Minato-ku Tokyo	105-0003	81-3-3593-3541
	JAPAN DME CO., LTD.	Study of the development of DME business	 Natural Gas Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4824
C	JAPAN PIONICS CO., LTD.	Manufacturing and sales of gas purifier	 Natural Gas Chemicals Company	[Head office] 3-3-32 Tamura Hiratsuka-shi, Kanagawa	254-0013	81-463-53-8300
C	JAPAN FINECHEM CO., INC.	Manufacturing and sales of fine chemicals and electronic products	 Natural Gas Chemicals Company	[Head office] Uchisaiwaicho Tokyu Building 1-3-2, Uchisaiwaicho, Chiyoda-ku, Tokyo	100-0011	81-3-5511-4600
	JAPAN FORMALIN CO., INC.	Manufacturing and sale of formalin	 Natural Gas Chemicals Company	[Head office] 3-7-20, Nihonbashi Chuo-ku, Tokyo	103-0027	81-3-5203-7751
E	JAPAN U-PICA CO., LTD.	Manufacturing and sales of unsaturated polyester resins	 Corporate	[Head office] Madre Matsuda Building 4-13 Kioi-cho, Chiyoda-ku, Tokyo	102-0094	81-3-6850-0251
	FUEL DME PRODUCTION CO., LTD.	Manufacture of dimethyl ether	 Natural Gas Chemicals Company	[Head office] 86-51 Ichiban-cho, Higashi-nakadori Kita-ku, Niigata	951-8116	81-3-3283-4824
C	FUDOW CO., LTD.	Manufacturing and sale of molding resins	 Aromatic Chemicals Company	[Head office] 2-15-16 Shin Yokohama, Kohoku-ku Tokohama-shi, Kanagawa	222-0033	81-45-548-4210
C	POLYOLS ASIA CO., INC.	Manufacturing and sales of polyhydric alcohols	 Natural Gas Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi Chiyoda-ku, Tokyo	100-8324	81-3-3283-4825
E	MIZUSHIMA AROMA CO., LTD.	Manufacturing and sales of purified terephthalic acid	 Aromatic Chemicals Company	[Head office/plant] 2-3-1 Mizushima-kaigandori Kurashiki-shi, Okayama	712-8072	81-86-446-4570
	MIZUSHIMA KASOZAI CO., LTD.	Manufacturing and sales of special plasticizer	 Aromatic Chemicals Company	[Head office] Mitsubishi Building, 2-5-2 Marunouchi, Chiyoda-ku, Tokyo	100-8324	81-3-3283-4733
	MIZUSHIMA PARAXYLENE CO., LTD.	Manufacturing and sales of petrochemistry product	 Aromatic Chemicals Company	[Head office] 2-6-3 Otemachi, Chiyoda-ku, Tokyo	100-8161	81-3-6275-5109
E	MITSUBISHI ENGINEERING-PLASTICS CORP.	Manufacturing and sales of engineering plastics	 Specialty Chemicals Company	[Head office] Shiodome Sumitomo-Building, 1-9-2 Higashi-shinbashi, Minato-ku, Tokyo	105-0021	81-3-6274-9000

C=Consolidated subsidiary E=Equity method affiliate

# MAJOR GROUP COMPANIES

 manufacturing/processing
  trading
  information/service
  distribution
  others

Classification	Company name	Business description	Company	Address	Zip Code	Telephone
	HACHIMANTAI GEOTHERMAL CORP.	Maintenance of steam facilities, environmental monitoring	 others Natural Gas Chemicals Company	[Head office] Kaminakajima 140 Hanawa, Kazuno-shi, Akita	018-5201	81-186-23-3861
	YAMADA KASEI CO., LTD.	Manufacturing and sales of chemical products and synthetic resins	 Corporate	[Head office] Yamada Building, 2-8-4 Uchikanda Chiyoda-ku, Tokyo	101-0047	81-3-3256-7861
	YUTAKA CHEMICAL CORPORATION	Manufacturing and sales of formaline	 Manufacturing/processing Natural Gas Chemicals Company	[Head office] 8-1 Akashi-cho, Chuo-ku, Tokyo	104-0044	81-3-5148-7134
C	YONEZAWA DIA ELECTRONICS CO., INC.	Manufacture of mass molding laminates, process development	 Information & Advanced Materials Company	[Head office] 3-446-3 Hachimanbara Yonezawa-shi, Yamagata	992-1128	81-238-28-1345
C	RYOKO CHEMICAL CO., LTD.	Sale of chemicals for general industry use and packing materials	 Corporate	[Head office] 4-12-20 Nihonbashi Honcho Chuo-ku, Tokyo	103-0023	81-3-6861-0050
	RYOKO LOGISTICS CO., LTD.	Transportation/storage	 Specialty Chemicals Company	[Head office] 2-81 kamisu-cho, Toyonaka-shi Osaka	561-0823	81-6-6331-2453
	RYODEN KASEI CO., LTD.	Manufacturing and sales of insulating materials	 Specialty Chemicals Company	[Head office/plant] 2-6-1 Miwa, Sanda-shi, Hyogo	669-1513	81-79-562-6801
	RYOUTOU UNYU SOUKO CO., LTD.	Transportation/storage	 Information & Advanced Materials Company	[Head office] 5-13-3 Nijuku, Katushika-ku, Tokyo	125-0051	81-3-3607-1205
	ROYOU INDUSTRIAL CORP.	Manufacture of flat heaters	 Manufacturing/processing Natural Gas Chemicals Company	[Head office] 192-5 Itakurakuinamasu, Joetsu City, Niigata Prefecture	944-0101	81-255-78-2945
C	ROYOYO TRADING CO., LTD.	Sales of chemical products/insurance agent	 Corporate	[Head office] Tokyo Sakurada Building, 1-1-3 Nishi-Shinbashi, Minato-ku, Tokyo	105-0003	81-3-3506-3750
C	RYOWA ENTERPRISE CO., LTD.	Property management/travel agency	 Corporate	[Head office] Mitsubishi Building, 2-5-2 Marunouchi, Chiyoda-ku, Tokyo	100-8324	81-3-3283-4945

C=Consolidated subsidiary E=Equity method affiliate

## Overseas

 manufacturing/processing
  trading
  information/service
  distribution
  others

Classification	Company name	Business description	Company	Address	Zip Code	Country	Telephone
	AGELESS (THAILAND) CO., LTD.	Manufacturing and sales of oxygen absorbers	 Information & Advanced Materials Company	[Head office/plant] Amatanakorn Industrial Estate 700/323 MOO6, Tumbol, Don Hua Lor Muang Chonburi District, Chonburi		Thailand	66-38-458-351
E	BRUNEI METHANOL COMPANY SDN. BHD.	Manufacturing and sales of methanol	 Manufacturing/processing Natural Gas Chemicals Company	[Head office] Sungai Liang Industrial Park (SPARK) Kg. Sungai Liang Daerah Belait	KC1135	Brunei Darussalam	673-322-9300
E	KOREA ENGINEERING PLASTICS CO., LTD.	Manufacturing and sales of polyacetal resins	 Manufacturing/processing Specialty Chemicals Company	[Head office] 450, Kongduk-Dong, Mapo-Ku, Seoul 121-720	121-720	Korea	82-2-707-6840
E	METANOL DE ORIENTE, METOR, S.A.	Manufacturing and sales of methanol	 Manufacturing/processing Natural Gas Chemicals Company	[Head office] Jose Petrochemical Complex Jose-Estado Anzoategui-Venezuela- Apdo Postal 5077 P.L.C.-C.P.6023		Venezuela	58-281-420-8851
C	MGC ADVANCED POLYMERS, INC.	Manufacturing and sales of nylons	 Manufacturing/processing Aromatic Chemicals Company	[Head office/plant] 1100 Port Walthall Drive Colonial Heights, Virginia	VA 23834	U.S.A.	1-804-520-7800

C=Consolidated subsidiary E=Equity method affiliate

Classification	Company name	Business description	Company	Address	Zip Code	Country	Telephone
C	MGC ELECTROTECHNO (THAILAND)CO.,LTD.	Manufacturing of copper clad laminates	 Information & Advanced Materials Company	[Head office/plant] 500/128 Moo3, Tambol Tasit, Amphur Plaak Daeng, Rayong Province 21140		Thailand	66-38-950-470
C	MGC PURE CHEMICALS AMERICA, INC.	Manufacturing and sales of ultra-pure hydrogen peroxide	 Specialty Chemicals Company	[Head office] 6560 South Mountain Road, Mesa Arizona	AZ 85212-9716	U.S.A.	1-480-987-9100
C	MGC PURE CHEMICALS SINGAPORE PTE. LTD.	Manufacturing and sales of ultra-pure hydrogen peroxide/Super-pure ammonium hydroxide/ Chemical polishing agent	 Specialty Chemicals Company	[Head office/plant] 29 Tuas West Road	638428	Singapore	65-6897-8971
C	MGC PURE CHEMICALS TAIWAN, INC.	Manufacturing and sales of ultra-pure Hydrogen peroxide	 Specialty Chemicals Company	[Head office/plant] 12, Jing 1st Road, Chung Kang Economic Processing Zone, Wuchi District, Taichung City 435, Taiwan		Taiwan	886-4-2658-4466
	MGC TRADING (THAILAND) LTD.	Sales of chemical products in Asia	 Corporate	[Head office] 18th Floor, Unit 1810, Empire Tower 195 South Sathorn Rd., Yannawa Sathorn, Bangkok	10120	Thailand	66-2-670-3417
C	mitsubishi gas chemical AMERICA, INC.	Sales of chemical products/functional products in USA	 Corporate	[Head office] 655 Third Avenue, 24th Floor New York	NY10017	U.S.A.	1-212-687-9030
C	MITSUBISHI GAS CHEMICAL ENGINEERING-PLASTICS(SHANGHAI)CO., LTD.	Manufacturing and sales of polycarbonate resin	 Specialty Chemicals Company	[Head office] No.55 Mu Hua Road Shanghai Chemical industry Park, Shanghai	201507	China	86-21-3127-3366
	MITSUBISHI GAS CHEMICAL EUROPE GMBH	Sales of aromatic chemicals/ functional products in Europe	 Corporate	[Head office] Immermannstr. 13, Dusseldorf	D-40210	Germany	49-211-363080
	MITSUBISHI GAS CHEMICAL SHANGHAI COMMERCE LTD.	Sales of chemical products/functional products in China	 Corporate	[Head office] 2110A, Westgate Mall, 1038 Nanjing Road (W), Shanghai	200041	China	86-21-62184081
C	MITSUBISHI GAS CHEMICAL SINGAPORE PTE. LTD.	Sale of methanol and other chemicals in the Southeast Asia	 Corporate	[Head office] 24 Raffles Place #16-01 Clifford Centre	048621	Singapore	65-6224-0059
C	P.T. PEROKSIDA INDONESIA PRATAMA	Manufacturing and sales of hydrogen peroxide	 Specialty Chemicals Company	[Head office] Jl. Jend. A. Yani, P.O. Box 53 Cikampek, 41373, Jawa Barat		Indonesia	62-264-31-3383
	POLYXYLENOL SINGAPORE PTE. LTD.	Manufacturing of polyphenylene ether resin	 Specialty Chemicals Company	[Head office] 6 Battery Road #13-01	049909	Singapore	65-6324-3001
	PTM ENGINEERING PLASTICS (NANTONG) CO. LTD.	Manufacturing and sales of polyacetal resin	 Specialty Chemicals Company	[Head office] No.171 Minxing Road, NETDA, Jiangsu Province		China	86-513-8592-2000
C	SAMYOUNG PURE CHEMICALS CO., LTD.	Manufacturing and sales of ultra-pure hydrogen peroxide	 Specialty Chemicals Company	[Head office] Block4-1, 5th Industrial Complex, Daehwa-ri, Seongnam-myeon, Dongnam-gu, Cheonan-si	330-892	Korea	82-41-520-8000
	SAUDI METHANOL CO. (AR-RAZI)	Manufacturing and sales of methanol	 Natural Gas Chemicals Company	[Head office] P.O.Box 10065 Madinat Al-Jubail Al-Sinaiyah		Kingdom of Saudi Arabia	966-3-357-7810
C	SUZHOU MGC SUHUA PEROXIDE CO., LTD.	Manufacturing and sales of hydrogen peroxide/ chemical polishing agent	 Specialty Chemicals Company	[Head office] Dongsha Chemical Area, Nanfeg Town, Zhangjiagang	215619	China	86-512-58635600-8882
	TAI HONG CIRCUIT INDUSTRIAL CO., LTD.	Manufacturing and sales of printed circuit boards	 Information & Advanced Materials Company	[Head office/plant] No.1 Chung-chun Lane Min-sheng N.Road., Sec.1 Nan-sheng, Village Kweishan Hsiang, Taoyuan Hsien		Taiwan	886-3-3321-1108
E	TE AN LING TIAN (NANJING) FINE CHEMICAL CO., LTD.	Manufacturing and sales of methylamine derivatives	 Natural Gas Chemicals Company	[Head office] 168 Fenghua Road, Chemical Industry Park, Luhe District, Nanjing	210047	China	86-25-84710990
C	THAI POLYACETAL CO., LTD.	Manufacturing and sales of polyacetal resin	 Specialty Chemicals Company	[Head office] Emporium Tower, Floor 24/4-7, 622 Sukhumvit Road, Klongton Klongtoey Bangkok	10110	Thailand	66-2-261-9260
E	THAI POLYCARBONATE CO., LTD.	Manufacturing and sales of polycarbonate resin	 Specialty Chemicals Company	[Head office] Emporium Tower, Floor 24/4-7, 622 Sukhumvit Road, Klongton Klongtoey Bangkok	10110	Thailand	66-2-261-9260

C=Consolidated subsidiary E=Equity method affiliate

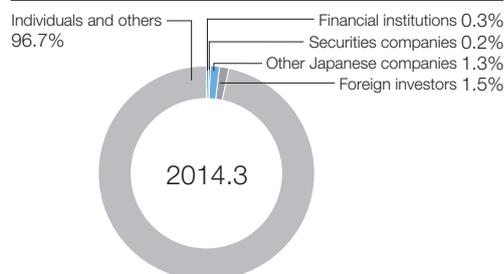
# BUSINESS LOCATIONS

	Address	Telephone	Fax
<b>Head Office</b>			
Head Office	Mitsubishi Building, 5-2 Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8324	81-3-3283-5000	81-3-3287-0833
<b>Branch Offices</b>			
Osaka Branch	Applause Tower 23F, 19-19, Chayamachi, Kita-ku, Osaka-shi, Osaka 530-0013	81-6-6372-1300	81-6-6376-1220
Shanghai Office	2110A, Westgate Mall, 1038 Nanjing Road(W), Shanghai,China	86-21-62184081	86-21-62184092
Taiwan Office	14F-13, No. 211, Sec. 1, Civic Blvd., Taipei 10351, Taiwan	886-2-2552-5335	886-2-2552-5367
<b>Research Institutes</b>			
Tokyo Techno Park (TTP)	1-1 Nijjuku 6-chome Katsushika-ku, Tokyo 125-8601	81-3-3627-9411	81-3-3627-9711
Tokyo Research Laboratory	1-1 Nijjuku 6-chome Katsushika-ku, Tokyo 125-8601	81-3-3627-9411	81-3-3627-9711
MGC Chemical Analysis Center	1-1 Nijjuku 6-chome Katsushika-ku, Tokyo 125-8601	81-3-3627-9586	81-3-3627-9560
Information & Advanced Materials Company Planning & Development Division R&D Center	1-1 Nijjuku 6-chome Katsushika-ku, Tokyo 125-8601	81-3-3627-0453	81-3-3608-7211
Niigata Research Laboratory	182 Tayuhama Shinwari, Kita-ku, Niigata 950-3112	81-25-259-8211	81-25-259-8218
Hiratsuka Research Laboratory	6-2 Higashiyawata 5-chome Hiratsuka-shi, Kanagawa 254-0016	81-463-21-8600	81-463-21-8630
<b>Plants</b>			
Niigata Plant	3500 Matsuhamacho, Kita-ku, Niigata 950-3121	81-25-258-3474	81-25-259-6931
Mizushima Plant	3-10 Mizushima Kaigandori Kurashiki-shi, Okayama 712-8525	81-86-446-3822	81-86-448-4723
Yokkaichi Plant	4-16 Hinagahigashi 2-chome Yokkaichi-shi, Mie 510-0886	81-59-345-8800	81-59-347-0799
Naniwa Plant	3-27 Funamachi 1-chome Taisho-ku, Osaka 551-0022	81-6-6551-3371	81-6-6551-6165
Saga Plant	681-45 Kamikumakawa, Fuji-cho, Saga 840-0512	81-952-64-2400	81-952-64-2402
Yamakita Plant	950 Kishi, Yamakita-machi Ashigarakami-gun, Kanagawa 258-0112	81-465-75-1111	81-465-76-3424
Kashima Plant	35 Towada, Kamisu-shi, Ibaraki 314-0102	81-299-96-3121	81-299-96-5686
<b>Overseas Branch Offices</b>			
Mitsubishi Gas Chemical America, Inc.	655 Third Avenue, 24th Floor, New York, NY 10017 U.S.A.	1-212-687-9030	1-212-687-2810
Mitsubishi Gas Chemical Singapore Pte. Ltd.	24 Raffles Place #16-01, Clifford Centre, Singapore 048621	65-6224-0059	65-6224-6079
MGC Trading (Thailand) Ltd.	195, Empire Tower, 18Floor, Unit 1810, Sathorn Rd., Yannawa, Sathorn, Bangkok 10120, Thailand	66-2-670-3417	66-2-670-3419
Mitsubishi Gas Chemical Europe GmbH	Immermannstr. 13, D-40210, Dusseldorf, Germany	49-211-363080	49-211-354457
Mitsubishi Gas Chemical Shanghai Commerce Ltd.	2110A, Westgate Mall, 1038 Nanjing Road(W), Shanghai,China	86-21-62184081	86-21-62184092

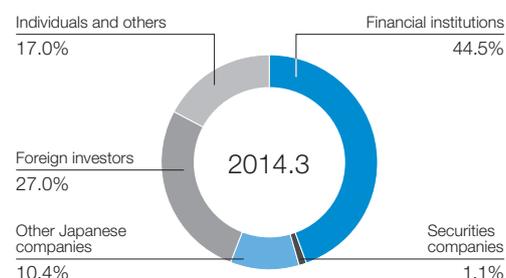
# INVESTOR INFORMATION

Listing	The first section of the Tokyo Stock Exchange
Ticker code	4182
Authorized shares	984,856,000
Outstanding shares	483,478,398
Stock transaction unit	1,000 - shares
Number of stockholders	24,997
Composition of stockholders	

Composition by holders



Composition by holdings

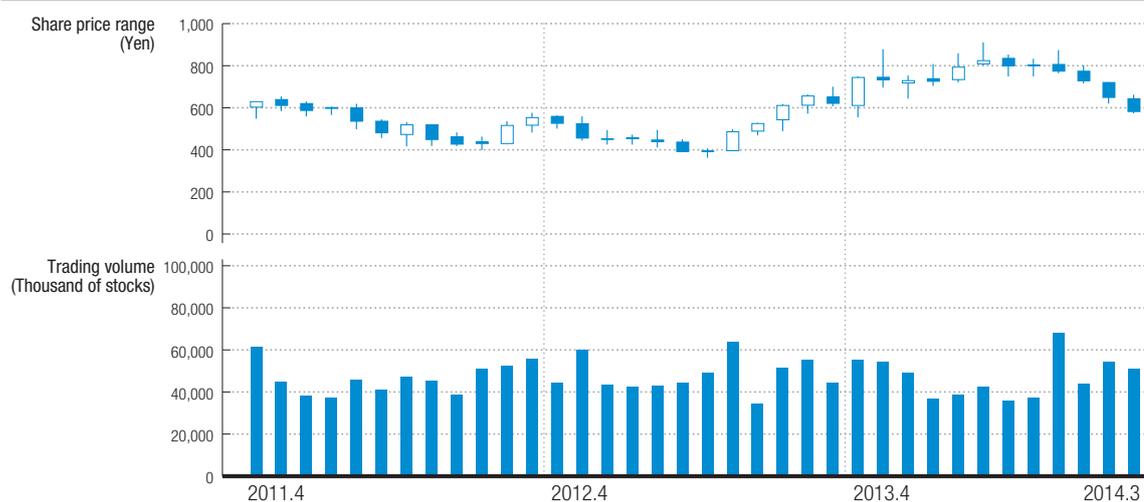


## Major stockholders (Top 10)

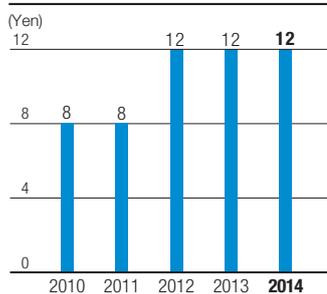
	Name	Number of shares held (Thousands)	Shareholding ratio (%)
1	The Master Trust Bank of Japan, Ltd. (Trust Account)	25,034	5.5
2	Japan Trustee Services Bank, Ltd. (Trust Account)	22,468	5.0
3	Nippon Life Insurance Company	19,521	4.3
4	Meiji Yasuda Life Insurance Company	16,795	3.7
5	National Mutual Insurance Federation of Agricultural Cooperatives	14,069	3.1
6	The Bank of Tokyo-Mitsubishi UFJ, Ltd.	13,611	3.0
7	NORTHERN TRUST CO.(AVFC) RE 15PCT TREATY ACCOUNT	11,179	2.5
8	CMBL S.A. RE MUTUAL FUNDS	10,207	2.3
9	Mitsubishi UFJ Trust and Banking Corporation	10,128	2.2
10	The Norinchukin Bank	10,053	2.2

Note: MGC holds 31,800 thousand shares of treasury stock, which is not included in the above list of principal stockholders or percentage calculations.

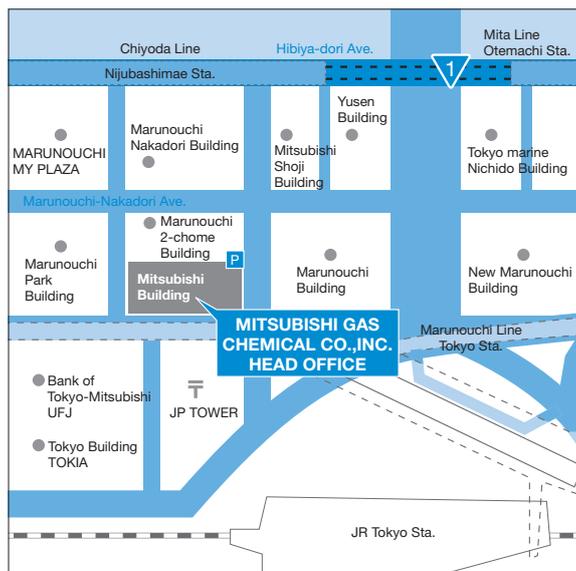
## Monthly stock price range and trading volume



## Dividend per share



## Head office



## Access

A two-minute walk from JR Tokyo Station  
(Marunouchi South Exit)

A one-minute walk from Tokyo Station  
(Tokyo Metro Marunouchi Line)

A two-minute walk from Nijubashimae Station  
(Tokyo Metro Chiyoda Line, Exit 4)

**MITSUBISHI GAS CHEMICAL COMPANY, INC.**

Mitsubishi Building, 5-2 Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8324

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<http://www.mgc.co.jp/eng/> (English) <http://www.mgc.co.jp/chi/> (Chinese)

