Company Data (Environment and Safety)

Mitsubishi Chemical Group Companies Promoting Responsible Care Activities

As of March 2018

Petrochemicals Business Domain

Japan Polychem

Japan Polypropylene

Japan Polyethylene

Mitsubishi Chemical Indonesia

Carbon Business Domain

Kansai Coke and Chemicals

MMA Business Domain

Mitsubishi Chemical Lucite Group

Huizhou MMA

Suzhou Sanyouli Chemicals

MCC United

Thai MMA

Mitsubishi Chemical Polymer Nantong

Suzhou MRC Opto-Device

Diatec

Ryoko

Acry Sunday

Diapolyacrylate

Advanced Polymers Business Domain

Mitsubishi Chemical Performance Polymers Europe

Mitsubishi Chemical Performance Polymers

Mitsubishi Chemical Performance Polymers (China)

Japan Unipet

RHOMBIC

High Performance Chemicals Business Domain

DIACHEM RESINS INDONESIA

Toei Kasei

Dianal America

Japan Coating Resin

Mitsubishi Chemical Analytech

ARKEMA Yoshitomi

Mitsubishi-Chemical Foods

Nippon Kasei Chemical

Information, Electronics & Display Business Domain

MC PET FILM INDONESIA

Mitsubishi Polyester Film Suzhou

Mitsubishi Chemical Converting Film Wuxi

Tai Young High Tech

Mitsubishi Chemical Infonics

Shinryo

Mitsubishi Chemical Media

The Nippon Synthetic Chemical Industry

High Performance Films Business Domain

J-Film

Tai-Young Film

DiaPlus Film

Mitsubishi Polyester Film (U.S.A.)

Mitsubishi Polyester Film (Germany)

Environment & Living Solutions Business Domain

Dalian Rayon Environmental Equipment

Wuxi Rayon Membrane Technology

Fengxin JDL Environment Protection

Mitsubishi Chemical Aqua Solutions

MCC KODA

Mitsubishi Chemical Cleansui

Wellthy

Resindion

Tai Young Chemical

Mitsubishi Chemical Agri Dream

Mikado Chemical M.F.G.

Mitsubishi Chemical Infratec

Astro

DIATEX

Advanced Moldings & Composites Business Domain

Quadrant

Toyama Filter Tow

Tosen

Ryoko Sizing

TK Industries

Mitsubishi Chemical Carbon Fiber

and Composites (U.S.A.)

Challenge

MCC Composite Products

Aldila

Wethje Carbon Composites

Wethje Immobilien

ALPOLIC

Mitsubishi Chemical Composites America

Ryobi Techno

Shanghai Baoling Plastics

Yuka Denshi

Dia Molding

New Energy Business Domain

MC Ionic Solutions UK

MC Ionic Solutions US

Qingdao Anode Kasei

Corporate Domain

Mitsubishi Chemical Logistics

Mitsubishi Chemical Engineering Corporation

Ryouei

MRM Otake

MRM Toyohashi

MRM Toyama

Ryoko Tekunika

Hokuryo Mold

Mitsubishi Chemical High-Technica

Company Data (Environment and Safety)

Safety Data

Data for years prior to and including fiscal 2016 are the sums of the figures for the previous Mitsubishi Chemical, Mitsubishi Plastics, Mitsubishi Rayon and their respective domestic group companies before the formation of the current Mitsubishi Chemical.

Mitsubishi Chemical Group Process Safety Incidents in Japan

Classification	FY2013	FY2014	FY2015	FY2016	FY2017
Incidents	15	14	12	16	36
Serious incidents	1	0	0	0	0

Mitsubishi Chemical Group Occupational Accidents in Japan

Classification	FY2013	FY2014	FY2015	FY2016	FY2017
Non-lost-time accidents	72	53	45	50	61
Lost-time accidents	5	4	7	5	0
Serious accidents	15	11	20	11	12

Mitsubishi Chemical Group Lost-Time Accidents by Classification

Classification	FY2013	FY2014	FY2015	FY2016	FY2017	Total
Cuts	2	1	1	6	1	11
Being caught and entangled in equipment	10	10	10	9	14	53
Falls on level surfaces	8	7	10	9	8	42
Chemical burns and toxicosis	2	2	3	6	2	15
Contact with high/low temperatures	2	1	3	2		8
Reaction to motion/ improper motion	4		1			5
Collisions	2		3		5	10
Falls from high places	5	3	3	4	8	23
Struck by flying/falling objects		1	3	1		5
Others	1	1	2	2	4	10

Environmental Data

Data for years prior to and including fiscal 2016 are the sums of the figures for the previous Mitsubishi Chemical, Mitsubishi Plastics, Mitsubishi Rayon and their respective domestic group companies before the formation of the current Mitsubishi Chemical.

Mitsubishi Chemical Group Emissions of Pollutants into the Atmosphere and Water Systems (t)

Pollutant	FY2013	FY2014	FY2015	FY2016	FY2017
NO _X	9,900	8,800	8,000	8,200	7,300
SO _X	3,200	3,000	3,100	2,900	2,900
BOD	120	110	100	100	250
COD	1,900	1,700	1,700	1,700	1,700
Dust	210	200	200	180	170
Total phosphorus	70	60	50	60	50
Total nitrogen	5,700	5,700	5,500	5,700	5,800
VOCs1	4,500	5,500	4,800	4,300	4,900

¹ Includes PRTR-regulated substances.

Mitsubishi Chemical Group Water Intake and Discharge Volumes (km³)

Туре		FY2013	FY2014	FY2015	FY2016	FY2017
Intake	Tap water	30,500	29,300	28,400	31,300	33,500
	Groundwater	26,500	24,200	22,300	23,200	25,500
	Industrial water	115,600	109,800	102,000	97,800	98,700
	Seawater	517,700	473,100	457,800	463,100	461,300
Discharge	Oceans	577,100	522,400	493,900	495,100	488,800
	Streams and wetlands	46,400	42,300	51,200	48,300	52,400
	Sewerage	3,900	3,300	3,500	3,600	3,300

ISO 14001 Certified Mitsubishi Chemical Plants

Plant	Certification body	Registration date	Plant	Certification body	Registration date
Otake Plant	LRQA ¹	March 2016	Mizushima Plant	JCQA	March 2000
Kurosaki Plant	JQA ²	July 2000	Kashima Plant	JCQA	March 2001
Nagahama and Azai Plants	JQA	December 1999	Sakaide Plant	LRQA	December 2000
Yokkaichi Plant	JCQA ³	July 1999	Tsukuba Plant	JCQA	February 2000
Toyama Plant	LRQA	July 2016	Santo Plant	JCQA	December 2001
Hiratsuka Plant	JQA	March 2000	Tsurumi Plant	LRQA	October 2016
Toyohashi Plant	LRQA	July 2016	Ueda Plant	JCQA	October 2003

¹ LRQA: Lloyd's Register Quality Assurance Limited

As of March 31, 2018

² JQA: Japan Quality Assurance Organization

³ JCQA: Japan Chemical Quality Assurance Ltd.