Company Data (Environment and Safety)

Mitsubishi Chemical Group Companies Promoting Responsible Care Activities

As of March 2021

Carbon Chemicals 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

Thai MMA

Mitsubishi Chemical Polymer Nantong

Suzhou MRC Opto-Device

Diapolyacrylate

Advanced Polymers Business Domain

Mitsubishi Chemical Performance Polymers Europe

Mitsubishi Chemical Performance Polymers Thailand

MCPP India

Mitsubishi Chemical Performance Polymers

MCPP Compounds Indonesia

Mitsubishi Chemical Performance Polymers (China)

Mitsubishi Chemical Performance Polymers (Chengdu)

RHOMBIC

High Performance Chemicals Business Domain

Diachem Resins Indonesia

Toei Kasei

Dianal America

Japan Coating Resin

ARKEMA Yoshitomi

Mitsubishi-Chemical Foods

Information, Electronics and Display Business Domain

MC PET Film Indonesia

Mitsubishi Polyester Film Suzhou

Mitsubishi Chemical Converting Film Wuxi

Mitsubishi Chemical Taiwan

Mitsubishi Chemical Infonics

Cleanpart

Shinryo

Taisei Kayaku

Kansai Kagaku Kogyo

Qualicaps

High Performance Films Business Domain

J-Film

DiaPlus Film

Mitsubishi Polyester Film (U.S.A.)

Mitsubishi Polyester Film (Germany)

Environment and Living Solutions Business Domain

Dalian Rayon Environmental Equipment

Wuxi Rayon Membrane Technology

Mitsubishi Chemical Aqua Solutions

Mitsubishi Chemical Cleansui

Resindion

Mitsubishi Chemical Agri Dream

Astro

DIATEX

Advanced Moldings and Composites Business Domain

Mitsubishi Chemical Advanced Materials

Gemini Composites LLC

Toyama Filter Tow

Tosen

Ryoko Sizing

Mitsubishi Chemical Carbon Fiber and Composites (U.S.A.)

Evanston Carbon Fiber

Challenge

MCC Composite Products

Aldila

Wethje Carbon Composites

Mitsubishi Chemical Infratec

Mitsubishi Chemical Composites America

MCC Advanced Moldings

New Energy Business Domain

MC Ionic Solutions UK

MC Ionic Solutions US

Qingdao Anode Kasei

MU Ionic Solutions

Corporate Domain

Mitsubishi Chemical Logistics

Mitsubishi Chemical Engineering Corporation

Ryoko Tekunika

Hokuryo Mold

Mitsubishi Chemical High-Technica

Company Data (Environment and Safety)

Safety Data

Data for 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	FY2016	FY2017	FY2018	FY2019	FY2020
Incidents	16	21	33	31	19
Serious incidents	0	0	0	0	0

Mitsubishi Chemical Group Occupational Accidents in Japan

Classification	FY2016	FY2017	FY2018	FY2019	FY2020
Non-lost-time accidents	50	61	63	64	50
Lost-time accidents	5	0	3	6	6
Serious accidents	11	12	8	11	7

Mitsubishi Chemical Group Lost-Time Accidents by Classification

Classification	FY2016	FY2017	FY2018	FY2019	FY2020	Total
Cuts	6	1				7
Being caught and entangled in equipment	9	14	5	3	1	32
Falls on level surfaces	9	8	1	4	3	25
Contact with hazardous substances	6	2		1	1	10
Contact with high/ low temperatures	2			1	3	6
Reaction to motion/ improper motion			2	3	2	7
Collisions		5			2	7
Falls from high places	4	8	2	1		15
Struck by flying/falling objects	1		1		1	3
Others	2	4		4		10

Environmental Data

Data for 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	FY2016	FY2017	FY2018	FY2019	FY2020
NO_x	8,200	7,300	6,700	7,500	7,200
SO_x	2,900	2,900	2,700	2,600	2,400
Dust	180	170	160	150	160
VOCs[1]	4,300	4,900	4,400	5,300	5,000
BOD	100	250	160	160	230
COD	1,700	1,700	1,600	1,600	1,400
Total phosphorus	60	50	50	50	50
Total nitrogen	5,700	5,800	5,400	5,500	4,700

1 Includes PRTR-regulated substances.

* Figures for fiscal 2019 and after have been revised in line with the expansion of the boundaries of the medium- to long-term basic management strategy of Mitsubishi Chemical Holdings (MCHC), KAITEKI Vision 30.

Mitsubishi Chemical Group Water Intake and Discharge Volumes (km^3)

Type		FY2016	FY2017	FY2018	FY2019	FY2020
Intake	Tap water	31,300	1,400	1,300	1,300	1,600
	Surface water	—	47,800	48,300	52,900	51,600
	Groundwater	23,200	25,500	25,900	26,000	24,300
	Industrial water	97,800	82,900	77,000	75,200	72,500
	Seawater	463,100	461,300	493,500	496,400	475,200
Discharge	Oceans	495,100	488,800	552,000	565,000	543,900
	Streams and wetlands	48,300	52,400	52,000	49,500	47,400
	Sewage	3,600	3,300	3,800	4,000	3,600

* Figures for fiscal 2019 and after have been revised in line with the expansion of the boundaries of MCHC's medium- to long-term basic management strategy, KAITEKI Vision 30.

ISO 14001 Certified Mitsubishi Chemical Manufacturing Sites and R&D Centers

Site/Center	Certification body	Registration date
Ibaraki Plant	JCQA[1]	March 2001
Toyama Plant	LRQA[2]	July 2016
Aichi Plant	LRQA	July 2016
Mie Plant	JCQA	July 1999
Shiga Plant	JQA[3]	December 1999
Okayama Plant	JCQA	March 2000
Hiroshima Plant	LRQA	March 2016
Kagawa Plant	LRQA	December 2000
Fukuoka Plant	JQA	July 2000
Onahama Plant	JCQA	March 2003

Site/Center	Certification body	Registration date
Tsukuba Plant	JCQA	February 2000
Tsurumi Plant	LRQA	October 2016
Hiratsuka Plant	JQA	March 2000
Ogaki Plant	SGS[4]	July 2001
Kumamoto Plant	SGS	July 2001
Osaka R&D Center	JCQA	November 2019

As of March 31, 2021

1 JCQA: Japan Chemical Quality Assurance Ltd.
2 LRQA: Lloyd's Register Quality Assurance Limited
3 JQA: Japan Quality Assurance Organization
4 SGS: SGS Japan Inc.