



## Social Activities: Supplementary Data

### 2 Occupational Safety and Health / Industrial Safety and Disaster Prevention

#### Occupational Safety and Health Management System

By fiscal 2009, Sumitomo Chemical acquired OSHMS certification from the Japan Industrial Safety and Health Association (JISHA) at four of its Works and two of its Research Laboratories. (JISHA's OSHMS includes the same requirements as OHSAS18001.)

JISHA's Official Websites

Japanese: <https://www.jisha.or.jp/about/index.html>

English: <https://www.jisha.or.jp/english/index.html>

#### Acquisition of OSHMS Certification (Sumitomo Chemical (Works and Research Laboratories))

Facilities	Certificate Number	Certification Date
Chiba Works	03-12-1	May 2003
Osaka Works	05-27-3	February 2005
Oita Works (Utajima)	09-27-14	January 2009
Oita Works (Gifu Plant)	09-21-6	February 2009
Oita Works (Okayama Plant)	09-33-7	February 2009
Oita Works	06-44-1	July 2006
Ohe Works	10-38-4	March 2010
Health & Crop Sciences Research Laboratory	07-28-9	January 2007
Tsukuba Regional Research Laboratory*	05-8-3	December 2005

\* The Tsukuba Regional Research Laboratory was reorganized into the Advanced Materials Research Laboratory, IT-related Chemicals Research Laboratory (Tsukuba), and Energy & Functional Materials Research Laboratory (Tsukuba).

#### Voluntary Safety Management of High-Pressure Gas Based on Certification by the Minister

Sumitomo Chemical continually renews the Accreditation of Completion and Safety Inspection, as stipulated in the High Pressure Gas Safety Act, for the Ehime Works and the Chiba Works. Certification is given to facilities that have achieved excellent safety, management, and technological levels and that are recognized as having met legally mandated requirements for safety management systems. Certified plants are allowed to conduct Completion Inspections and Safety Inspections of their own facilities in place of national, prefectural, and other governmental organizations.

#### Number of Accreditations of Completion and Safety Inspection Given for Sumitomo Chemical Facilities

Works	Area	Year of certification	Year and month renewed	Number of facilities given accreditation
Ehime Works	Niihama	2002	March 2018	13
	Kikumoto	2002	March 2018	4
Chiba Works	Anesaki	1987	May 2019	8
	Sodegaura	1987	May 2019	15

Note: Number of facilities given accreditation data as of the time of certification renewal.



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### Criteria and Results of the President's Safety Award for Zero-Lost Workday Operations (as of May 31, 2019)

Sumitomo Chemical has set facility specific criteria for the achievement of continuous periods of zero-lost workday operations for employees as well as contractors. The President's Safety Award is presented to facilities in recognition of their satisfaction of the above-mentioned criteria.

#### Sumitomo Chemical Employees (Works, Research Laboratories)

Facilities	Criteria for the President's Safety Award*1	Results
Ehime Works	3 million hours	Reached 12 million work hours in April 2018. Working to reach the target of 15 million work hours.
Ohe Works*2	3 million hours	A lost workday accident occurred in March 2019. Working to reach the target of 3 million work hours.
Chiba Works	3 million hours	A lost workday accident occurred in March 2019. Working to reach the target of 3 million work hours.
Osaka Works	3 million hours	Working to reach the target of 15 million work hours.
Oita Works*3	1.5 million hours	Reached 4.5 million work hours in January 2019. Working to reach the target of 6 million work hours.
Misawa Works	30 months	Reached 180 months in September 2018. Working to reach the target of 2.1 million work hours.
Health & Crop Sciences Research Laboratory	30 months	Working to reach the target of 30 months.
Tsukuba Regional Research Laboratory*4	30 months	Reached 360 months in March 2019. Working to reach the target of 390 months.

#### Contractors / Affiliated Company Employees of Sumitomo Chemical (Works, Research Laboratories)

Facilities	Criteria for the President's Safety Award*1	Results
Ehime Association (Plant maintenance)	24 months	A lost workday accident occurred in March 2019. Working to reach the target of 24 months.
Ehime Logistics Association (Logistics)	24 months	Working to reach the target of 48 months
Ohe Association (Plant maintenance)	48 months	Working to reach the target of 144 months
Ohe Logistics Association (Logistics)	48 months	Working to reach the target of 144 months
Chiba Association (Plant maintenance)	24 months	Working to reach the target of 24 months
Chiba Logistics Association (Logistics)	24 months	Working to reach the target of 48 months
Osaka Association	24 months	Working to reach the target of 24 months
Oita Association	24 months	Reached 96 months in April 2019. Working to reach the target of 120 months
Okayama Association	48 months	Working to reach the target of 48 months
Gifu Association	48 months	Working to reach the target of 144 months
Misawa Works	48 months	Reached 96 months in September 2018. Working to reach the target of 144 months
Health & Crop Sciences Research Laboratory	48 months	Reached 240 months in March 2019. Working to reach the target of 288 months
Tsukuba Regional Research Laboratory*4	48 months	Reached 96 months in March 2019. Working to reach the target of 144 months

\*1 Continuous periods of zero lost-workday operations.

\*2 Ohe Works includes Sumika Assembly Techno Co., Ltd.

\*3 Oita Works includes the Utajima Pilot Production Department, Gifu Plant, and Okayama Plant.

\*4 The Tsukuba Regional Research Laboratory was reorganized into the Advanced Materials Development Research Laboratory, IT-related Chemicals Research Laboratory (Tsukuba), and Energy & Functional Materials Research Laboratory (Tsukuba).



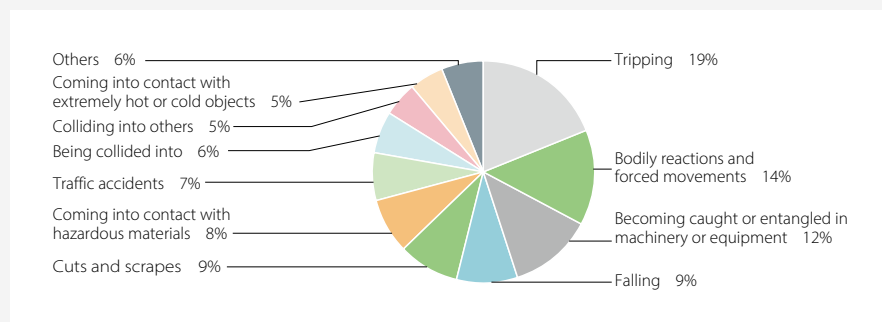
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### Safety Achievements

#### ■ Lost-Workday Injuries (Sumitomo Chemical Group\*)

	FY2015	FY2016	FY2017	FY2018
Number of lost-workday injuries	17	9	17	35
Frequency rate of lost-workday injuries	0.27	0.14	0.26	0.58
Number of fatal accidents	0	0	2	1
Number of fatal accidents (contract employees)	0	0	0	1

#### ■ FY2018 Breakdown of Causes of Injury by Type (Sumitomo Chemical Group\*)



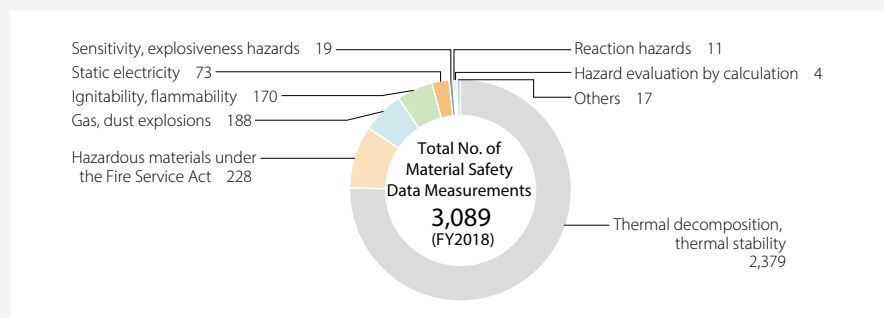
\* As defined for occupational safety and health, industrial safety, and disaster prevention: Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.



## Social Activities: Supplementary Data

### Industrial Safety and Disaster Prevention Results

#### Results of Material Safety Data Measurements



The Safety Engineering Group at the Production & Safety Fundamental Technology Center studies and assesses process safety, researches safety measures, measures and evaluates material safety data, compiles a database on safety technologies, and undertakes training for safety engineers in its efforts to enhance process safety management and to prevent accidents such as fires and explosions. A total of 2,911 material safety data measurements were taken in fiscal 2018 (2,512 measurements in fiscal 2017) from within Sumitomo Chemical. In addition, 178 measurements were taken in fiscal 2018 (183 measurements in fiscal 2017) from Group companies. Total measurements undertaken were 3,089 in fiscal 2018 (2,695 measurements in fiscal 2017).

#### The Launch of Several Process Safety Review Committees (Sumitomo Chemical (All Worksites))

Fiscal Year	R&D stages		Industrialization stage		
	Level 1	Level 2	Level 3	Level 4	Level 5
2015	22	29	41	131	26
2016	14	33	37	81	17
2017	25	19	27	88	47
2018	24	38	27	91	24

When new processes are developed at Sumitomo Chemical, the Process Safety Review Committee (levels 1 to 5) convenes at every step, from R&D through to industrial-scale production. In essence, this Committee focuses on process safety assessment results and confirms whether safety counter-measures are appropriate.

#### Safety Information Database (Sumitomo Chemical)

	Number of data sets	(Year on year comparison)
Accident prevention technology information	19,682	Increased by 718
Accident cause investigations	2,400	Increased by 29
Accident information	20,597	Increased by 215
As of March 31, 2019	42,679	Increased by 962

A safety information database has been created by collecting information on accidents in Japan and overseas and compiling abstracts of said data. As of the end of March 2019, 42,679 sets of data were stored in the database (41,717 sets of data as of March 31, 2018). This system allows all employees at each Works or Research Laboratory to search stored data using individual terminals. This data is also used in process hazard evaluations and case study examinations to prevent similar accidents. In addition, accident data is also disclosed to Group companies as necessary.