

Fatal and non-fatal accidents in other chemical products in Japan in 1999-2021

other chemical products industry Code No.010899

Type of accidents in other chemical products in 1999-2021

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
fall from height	55	40	51	44	47	48	42	40	42	43	32	45	31	31	36	42	30	26	52	47	36	47	34	941	fall from height
falling to same level	59	65	58	43	43	48	48	53	44	52	55	45	44	55	39	37	49	63	55	69	60	67	69	1,220	falling to same level
crash	18	17	13	13	12	8	19	10	17	8	10	11	11	11	14	9	9	10	16	15	14	13	22	300	crash
struck by flying or falling object	31	28	19	17	14	11	16	21	17	17	17	13	20	13	11	8	15	10	21	15	16	22	9	381	struck by flying or falling object
collapse	9	11	3	1	4	8	8	8	6	5	2	2	4		5	6	2	3	3	4	4	5	4	107	collapse
crashed by	15	17	15	15	16	13	12	14	11	6	9	15	13	7	4	9	6	8	13	12	10	7	10	257	crashed by
caught in/between	159	125	127	111	103	106	103	106	84	84	76	69	84	74	53	73	84	64	72	58	68	66	73	2,022	caught in/between
cut	32	34	29	23	40	21	30	20	23	17	16	15	16	14	17	17	17	8	18	15	9	10	12	453	cut
injury to the sole of the foot	2		2	2			1									1	1							9	injury to the sole of the foot
drown																							1	1	drown
contact to high/low-temperature	23	25	11	9	17	14	16	9	10	16	9	13	14	6	13	13	4	10	12	11	16	16	9	296	contact to high/low-temperature

machine			1		2		3	2	6	3	3	4	1	2	2			2	2	1		1	2	37	machine
food manufacturing machine					1										1		1	1		1		1		6	food manufacturing machine
printing machine			3		1		2	1	1	2	1	2	1	1	1	1	2	3	1	2		1	1	27	printing machine
industrial robot												1										1	1	3	industrial robot
other general power machines			66		59		50	59	47	43	45	39	43	33	30	31	41	26	37	30	28	24	33	764	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			1		1		2		1	2	2	3		2		1	1		1	1		3	21	crane	
mobile crane						1				1														2	mobile crane
derrick crane																									derrick crane
elevator, lift			2							1	1				1			1	1		1			8	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

simple skyline yarding equipment																								simple skyline yarding equipment	
other powered crane							1		1	1			2		1								6	other powered crane	
truck			11		6		5	10	9	2	7	6	5	5	5	7	3	3	7	4	12	10	5	122	truck
forklift			22		17		12	15	13	14	13	16	12	12	14	12	11	8	19	16	10	11	16	263	forklift
railway equipment										1														1	railway equipment
conveyor			22		10		9	11	12	11	4	7	15	4	3	10	10	9	10	9	7	8	6	177	conveyor
loader										1	1			1										3	loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			3		2				2	1	2	2		1	1	2	4		3	1	1	3	1	29	other powered conveying machines
cars, bus, motorcycle			3		5		4	3	2	4	5	2	1	3	1	1	1	7	1	8	3	3	2	59	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles														1						1				2	other vehicles
boiler									1						1									2	boiler
pressure vessel			1				1					3		1	1				2				1	10	pressure vessel
other pressure vessels										1	1					1			1		1			5	other pressure vessels
chemical facilities			2		4		3	2	3			2		1	2	3	3	2	3	3	2	3	3	41	chemical facilities
gas welding																				1				1	gas welding

facilities			13		11		16	12	8	11	12	21	15	4	9	10	15	14	17	12	12	16	11	239	facilities
scaffolding			1		1		1	1	1		1	1		1						1				9	scaffolding
timbering																									timbering
stairs, landing stage			18		7		10	19	13	17	12	12	8	5	10	21	11	8	23	17	16	19	17	263	stairs, landing stage
opening			1				1		1	1		1	1		1	1				1	1	1		11	opening
roof, beam, haze, crossbeam, principal rafter			1		4		2	1		3	1	1	1	1		1		1	1	1		3		21	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			11		11		10	10	8	10	15	9	11	6	5	5	10	6	7	7	6	9	7	163	working platform, boot board
passage			20		13		29	21	15	23	17	16	15	26	11	13	23	24	20	31	23	32	32	404	passage
building, establishment			7		9		8	8	10	11	5	5	6	10	10	4	3	13	12	8	6	8	8	151	building, establishment
other temporary buildings, establishments			7		11		5	3	5	5	4	7	3	1	5	3	2	5	5	5	7	2	6	91	other temporary buildings, establishments
explosive substance			2		5		3	2	1	1	1	1	1	1	3	2		1		3	1	1	2	31	explosive substance
inflammable substance			5		1		1	3	10	1	3	4	4	4	2	2			3	1	2	1	1	48	inflammable substance
inflammable gas												2	1				1			1				5	inflammable gas
harmful substance			9		7		10	10	8	5	9	5	7	5	4	10	5	4	5	5	7	13	5	133	harmful substance
radiation																									radiation
other hazards, harmful substances			8		6		3	6	9	4	4	3	5	4	4	4	3	5	10	7	5	7	4	101	other hazards, harmful substances

metal material			6		6		5	8	7	9	5	2	5	4	4	5		5	5	2	5	5	3	91	metal material
lumber, bamboo					1		1	2	2		1	1	1			1	1			1		1	2	15	lumber, bamboo
stone, sand, substance							1			1			1	1	1				1		1		1	8	stone, sand, substance
other materials			2		8		9	8	11	7	9	10	9	6	8	12	9	5	4	8	6	9	5	145	other materials
load			24		26		23	28	26	22	21	21	24	23	24	24	16	18	25	31	27	26	43	472	load
machine/equipment as load			6		3		3	1			1	1	1	4	2	3	1	1	2		2	1	1	33	machine/equipment as load
natural ground, rock					1							1						1			1	1		5	natural ground, rock
standing tree												1			1									2	standing tree
water					2		2		1	2						1	1				1	2		12	water
abnormal environment								1		1		1							1				2	6	abnormal environment
high/cold temperature environment			1		1			1	1	4	1	1	2	1	1	2		2	1	1	7	6	2	35	high/cold temperature environment
other environments			4		2		1	2	1	3		2		4	2	1	1	4	1	6	1	2	1	38	other environments
other causal agent			7		6		5	2	11	6	5	4	1		4	2	4	6	5	5	7	2	63	145	other causal agent
no causal agent			12		12		13	17	15	10	7	12	10	6	8	8	5	10	9	14	22	28	21	239	no causal agent
unclassifiable			3				1		3	1				1	1	2	1	1		1				15	unclassifiable
total			393		351		351	346	337	304	282	289	282	259	240	265	259	259	311	317	308	338	384	5,875	total

Workers age of fatal and non-fatal accidents in other chemical products in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	13	8	11	6	9	7	5	13	6	7	4	6	2	4	6	7	5	4	5	9	4	11	7	159	19 years old or less
20-29	92	84	75	72	61	63	57	54	55	45	45	44	47	40	39	49	40	30	48	37	51	56	46	1,230	20-29
30-39	79	88	84	82	84	87	93	78	79	81	74	68	68	68	66	66	44	49	54	51	54	76	73	1,646	30-39
40-49	113	92	89	67	79	70	67	68	67	58	57	72	74	55	45	78	64	81	73	81	81	71	94	1,696	40-49
50-59	136	128	106	82	88	85	90	92	89	75	69	68	66	62	55	36	65	62	85	81	73	69	106	1,868	50-59
60 years old or more	34	34	28	27	30	28	39	41	41	38	33	31	25	30	29	29	41	33	46	58	45	55	58	853	60 years old or more
total	467	434	393	336	351	340	351	346	337	304	282	289	282	259	240	265	259	259	311	317	308	338	384	7,452	total

Workers' number of workplace of fatal and non-fatal accidents in other chemical products in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	77	56	61	61	68	63	62	51	59	38	37	31	29	30	22	29	32	30	32	35	25	29	29	986	9 workers or less
10-29	108	119	109	86	64	75	73	78	64	79	48	62	74	52	55	68	55	44	76	57	53	67	60	1,626	10-29
30-49	77	85	57	36	50	51	53	44	44	47	49	43	55	44	33	32	43	32	45	39	36	41	46	1,082	30-49
50-99	89	67	69	66	63	66	68	73	61	54	54	42	41	46	44	41	35	48	53	44	52	59	56	1,291	50-99
100-299	92	64	69	62	84	62	79	70	88	60	68	90	57	58	60	68	66	75	81	98	90	91	127	1,759	100-299
300 workers or more	24	43	28	25	22	23	16	30	21	26	26	21	26	29	26	27	28	30	24	44	52	51	66	708	300 workers or more
total	467	434	393	336	351	340	351	346	337	304	282	289	282	259	240	265	259	259	311	317	308	338	384	7,452	total

Month of fatal and non-fatal accidents in other chemical products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	37	46	29	22	26	24	35	31	24	31	29	36	18	18	17	18	19	23	32	31	23	26	36	631	January
February	32	43	47	29	25	21	27	35	32	31	17	27	18	28	25	29	23	13	35	33	32	40	22	664	February
March	40	31	30	27	32	19	33	38	41	39	24	27	23	19	20	22	18	18	31	30	26	33	27	648	March
April	33	31	32	26	33	33	43	28	37	26	19	17	21	14	16	16	26	23	20	16	16	26	22	574	April
May	33	37	33	20	33	29	19	24	26	16	22	22	34	21	18	25	22	13	17	23	21	18	33	559	May
June	45	41	31	22	26	35	34	29	22	22	23	23	30	26	17	19	25	28	28	26	34	27	37	650	June
July	33	45	49	42	32	39	28	36	28	29	32	23	22	20	27	29	23	23	27	28	32	30	36	713	July
August	50	29	28	28	24	33	34	31	28	28	26	30	20	21	22	26	13	31	15	35	31	29	45	657	August
September	38	28	28	44	37	33	25	28	29	23	19	25	27	25	18	16	23	18	27	20	21	28	39	619	September
October	54	39	36	25	31	25	21	24	25	25	24	27	23	26	23	19	26	32	23	30	26	34	34	652	October
November	32	39	29	27	31	24	19	20	24	18	28	20	19	26	20	24	22	14	25	34	30	29	33	587	November
December	40	25	21	24	21	25	33	22	21	16	19	12	27	15	17	22	19	23	31	11	16	18	20	498	December
total	467	434	393	336	351	340	351	346	337	304	282	289	282	259	240	265	259	259	311	317	308	338	384	7,452	total

Prefecture of fatal and non-fatal accidents in other chemical products in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	7	8	9		3		4	7	6	3	7	5	6	3	3	5	4	6	8	5	3	6	3	111	Hokkaido
Aomori	1		1										2	2										6	Aomori
Iwate	2	2	2		4		8	3	3	4	2	1	1	2	4	2	2	4	3	1		5	3	58	Iwate

Miyagi	6	8	7		3		8	2	4	2	1	4	2	9	2	2	3	3	2	5	2	2	4	81	Miyagi
Akita	1		4		1		1														1			8	Akita
Yamagata		1	1		2				1	2	1	3	4	3	2	1	2	2	1	1			2	29	Yamagata
Fukushima	4	3	6		4			5	5	4	4	5	5	9	3	5	3	2	8	6	5	3	9	98	Fukushima
Ibaraki	6	7	17		15		18	9	9	10	11	13	15	9	7	14	14	14	19	16	11	14	14	262	Ibaraki
Tochigi	6	9	6		6		7	5	11	5	7	7	6	8	6	5	8	5	6	7	9	5	19	153	Tochigi
Gunma	16	13	11		12		9	20	17	6	6	11	8	8	3	15	9	11	9	8	13	16	25	246	Gunma
Saitama	45	38	25		35		24	33	19	23	31	33	22	21	21	18	31	26	27	25	20	25	25	567	Saitama
Chiba	17	16	17		9		15	9	16	23	14	15	13	15	13	10	8	8	15	14	11	15	19	292	Chiba
Tokyo	16	16	15		17		10	9	10	10	4	4	7	2	4	5	3	5	11	4	9	12	6	179	Tokyo
Kanagawa	35	20	34		30		29	28	15	28	22	28	22	22	20	33	26	27	25	27	23	29	58	581	Kanagawa
Niigata	5	4	3		4		5	3	9	6	3	2	4	4	3	1	1	1	2	5	1	6	6	78	Niigata
Toyama	8	7	1		6		1	4	5	1	4	1	4	4	1	1	2	3	2	2	4	2		63	Toyama
Ishikawa		1	1		1				1					2		1				1		1	2	11	Ishikawa
Fukui	7	3					6	1		1			2	2	1	2	2	2	2	1	2	1	1	36	Fukui
Yamanashi	5		2		2		1	3	1	4	4		3	3	1	2	3	2	3	1	6	3	1	50	Yamanashi
Nagano	10	6	3		1		1	2	4	5	2	2	2		1	4	1	2	1		6	2	1	56	Nagano
Gifu	11	16	8		13		14	9	8	9	5	8	9	6	6	6	4	5	3	9	6	5	13	173	Gifu
Shizuoka	31	29	16		22		14	16	9	12	7	11	10	6	7	4	10	9	16	24	20	14	12	299	Shizuoka
Aichi	19	32	27		29		27	19	22	21	21	18	18	17	15	13	9	13	22	13	20	17	15	407	Aichi
Mie	6	16	10		3		13	9	15	13	7	6	11	9	7	3	5	10	7	7	11	6	17	191	Mie
Shiga	11	8	11		8		14	11	10	11	10	12	6	4	6	16	8	9	15	12	12	9	9	212	Shiga
Kyoto	10	5	3		6		7	8	4	3	4	4	4	2	2	2	11	2	7	9	3	1	1	98	Kyoto

Osaka	66	70	56		38		43	57	48	34	46	43	21	33	30	33	30	33	28	31	24	42	38	844	Osaka	
Hyogo	29	27	24		22		24	22	22	19	18	13	24	14	21	17	13	24	17	22	29	21	25	447	Hyogo	
Nara	11	7	5		2		4	4	6	4	3	2	1	4	5	5	7	4	4	11	9	2	7	107	Nara	
Wakayama	8	2	9				7	9	7	6	6	7	5	6	13	2	5	3	8	9	6	11	8	137	Wakayama	
Tottori			1					1	1	1			1	1		1			1	1	1	1	4	15	Tottori	
Shimane		4			1		1	1			1	1	1		1							2		13	Shimane	
Okayama	10	13	13		11		8	2	13	3	6	7	13	6	9	10	3	4	9	10	14	13	5	182	Okayama	
Hiroshima	2	6	10		7		4	4	5	3	3	2	1	2	1	3	3		3	3	2	2	4	70	Hiroshima	
Yamaguchi	9	6	6		5		6	8	4	4	5	3	3	2	3	2	2	2	1	4	1	9	1	86	Yamaguchi	
Tokushima	3	2	1		2		2	1	3				3		2	2	2	4	4	2	2	4	4	43	Tokushima	
Kagawa	3	2	1		3		2	4	3	5	5	2	4	4	5	5	6	2	4	2	1	3	4	70	Kagawa	
Ehime	5	6	8		2		1			1		2	3	1	3	1	3		3	2	3	3	4	51	Ehime	
Kochi	1				2				1			1	2	2	1	2	1		4	1	4	3		25	Kochi	
Fukuoka	16	9	10		15		7	13	8	9	10	6	9	5	4	5	7	9	5	6	5	14	11	183	Fukuoka	
Saga	4	2					1			4			1	1	1		2		1	2	2	2		23	Saga	
Nagasaki	1								5	1	1	1	1						2				1	1	14	Nagasaki
Kumamoto	4	4			1			2	2	1			1	1	2	4	3	3		3	4	3	1	39	Kumamoto	
Oita	7	6	3		1		2		3	1	1	4	1	3		2	2			1			1	38	Oita	
Miyazaki	2		3		2		2	1	1	1				1		1	1		2		2	1		20	Miyazaki	
Kagoshima			1				1	1	1			1		1	1				1	2	1	2	1	14	Kagoshima	
Okinawa	1		2		1			1		1		1	1							2				10	Okinawa	
total	467	434	393		351		351	346	337	304	282	289	282	259	240	265	259	259	311	317	308	338	384	6,776	total	

hand tool																								hand tool		
ladder																		1						1	ladder	
slinging tool																								slinging tool		
other tools																								other tools		
other equipment, facilities										2								1						3	other equipment, facilities	
scaffolding																								scaffolding		
timbering																								timbering		
stairs, landing stage																	1							1	stairs, landing stage	
opening																							1	1	opening	
roof, beam, haze, crossbeam, principal rafter																								1	1	roof, beam, haze, crossbeam, principal rafter
working platform, boot board																									working platform, boot board	
passage																	1							1	passage	
building, establishment																								1	3	building, establishment
other temporary buildings, establishments																									other temporary buildings, establishments	
explosive substance	1																							6	explosive substance	
inflammable substance																									3	inflammable substance

100-299					2						1	1	1	1		2			1			1	1	11	100-299
300 workers or more									1		1													3	300 workers or more
total	4	2	3	2	5	1	2	7	2	5	3	2	3	2	1	2	3	2	4	4	3	1	1	64	total

Month of fatal accidents in other chemical products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January		1			1					1						1			1					5	January
February	2			1				1				1	1							1				7	February
March		1					1																	2	March
April								1		3														4	April
May													2	1			1				2			6	May
June					1	1		1										1		2				6	June
July					1			2									1							4	July
August	1		1	1				1			1							1				1	1	8	August
September			1		1					1							1		1		1			6	September
October			1		1							1			1	1			1	1				7	October
November	1								2		2			1										6	November
December							1	1											1					3	December
total	4	2	3	2	5	1	2	7	2	5	3	2	3	2	1	2	3	2	4	4	3	1	1	64	total

Prefecture of fatal accidents in other chemical products in 1999-2021

