

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

non organic or organic chemical products industry Code No.010801

Type of accidents in non organic or organic 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	34	46	49	38	40	44	41	40	39	48	30	37	39	36	21	30	26	44	22	30	35	29	19	817	fall from height
falling to same level	37	34	37	28	42	46	41	43	43	36	29	35	47	35	30	39	29	39	30	36	38	32	42	848	falling to same level
crash	15	11	16	17	19	10	11	19	15	11	8	10	13	6	13	12	5	8	3	13	9	13	12	269	crash
struck by flying or falling object	18	17	23	14	16	18	18	14	14	13	6	13	10	5	7	14	11	6	11	8	7	9	11	283	struck by flying or falling object
collapse	8	6	2	1	6	1	3	4	5	7	2	7	3	3	1	3	1	5	1	3	4	3	4	83	collapse
crashed by	10	19	7	11	9	14	8	14	10	10	5	10	6	4	9	10	4	4	8	4	10	8	8	202	crashed by
caught in/between	79	88	61	76	73	61	74	55	59	57	51	44	40	45	40	47	50	40	47	43	59	38	46	1,273	caught in/between
cut	9	15	10	12	20	19	18	10	8	12	12	6	11	12	6	9	5	10	9	6	8	6	6	239	cut
injury to the sole of the foot	1	1	2				1			1		2					2	3		1		2	1	17	injury to the sole of the foot
drown																		1						1	drown
contact to high/low-temperature	18	18	16	27	12	17	11	24	19	13	12	12	11	6	15	11	11	13	15	8	14	13	21	337	contact to high/low-temperature









engine							1	1					1		1						1		5	engine	
power transmission mechanism			4		7		6	5	1	3	5	4	2	3	6	3	2	4	2	3	3	2	2	67	power transmission mechanism
circular sawing machine					1		2	2	1	1	1	3	1					1	1				1	15	circular sawing machine
band sawing machine					2		1		2											1				6	band sawing machine
wood planer machine															1									1	wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw											1													1	chain saw
other woodworking machines			1		1					1												1		4	other woodworking machines
leveling, transporting or loading machine											1	1										1		4	leveling, transporting or loading machine
excavating machine					1																	1		2	excavating machine
foundation work machine																									foundation work machine



machine					1		2	1	2	1	1		1	3				1	1			1	1	1	17	machine
food manufacturing machine							1		1		2			1						1					6	food manufacturing machine
printing machine					1		1	2					1	1				1		2		1		1	11	printing machine
industrial robot										1							1								2	industrial robot
other general power machines			27		29		27	28	24	25	18	20	17	17	15	13	20	13	16	12	18	12	16	367	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			4				2	1	1	1		2	1			2	1				4	1	1	21	crane	
mobile crane										2								2							4	mobile crane
derrick crane																										derrick crane
elevator, lift					1					1							2			1	1	2			8	elevator, lift
cargo lifting appliance																										cargo lifting appliance
gondola																										gondola
lumberyard equipment, logging cableway																										lumberyard equipment, logging cableway







facilities			10		13		10	6	15	11	9	10	6	9	11	15	7	14	5	9	8	10	8	186	facilities
scaffolding			2			2	1	1	2		1	1				1		2	1	2	1	1		18	scaffolding
timbering																									timbering
stairs, landing stage			10		12		11	16	14	14	9	9	15	12	9	14	4	8	11	18	20	12	7	225	stairs, landing stage
opening					1		1	1	3	2		1	1	1		1	1				1	2		16	opening
roof, beam, haze, crossbeam, principal rafter			1		1		2		3	1		1	2		1	1		2			3	1	1	20	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			8		12		6	10	6	6	8	5	6	10	2	5	8	9	2	1	4	5	3	116	working platform, boot board
passage			16		11		14	19	20	18	9	6	21	12	14	18	10	22	16	20	20	14	23	303	passage
building, establishment			12		10		9	9	16	11	4	9	10	9	8	8	6	7	8	9	7	5	5	162	building, establishment
other temporary buildings, establishments			5		8		1	6	3	4	4	6	4	3	4	3	2	7	3	4	6	10	4	87	other temporary buildings, establishments
explosive substance			3			3		3	1		1	1	1	1	1				2		1	1	1	19	explosive substance
inflammable substance			5		5		2	2	4	2	3	3	3	2	1		3	1	1	3	5	2	2	49	inflammable substance
inflammable gas			3			2	1				4			1	1			2					1	15	inflammable gas
harmful substance			22		9		18	17	26	8	6	10	12	10	6	8	18	17	11	11	9	4	8	230	harmful substance
radiation																									radiation
other hazards, harmful substances			16		10		13	14	14	9	7	9	6	4	11	2	11	9	9	9	10	13	14	190	other hazards, harmful substances

metal material			8		5		3	2	6	5	2	2	4	5	5	3	3	6	3	3	2	2	5	74	metal material
lumber, bamboo			1			2						3				1	1							8	lumber, bamboo
stone, sand, substance					1							1		1										3	stone, sand, substance
other materials			3		5		6	8	4	4	3	3	9	3	5	4	2	5	6	3	4	3	5	85	other materials
load			22		22		23	26	23	26	15	11	17	7	9	15	9	17	12	19	13	14	18	318	load
machine/equipment as load			1		2		1	3	4		4		1			1	2			1			1	21	machine/equipment as load
natural ground, rock						1					1	1		1	1								1	6	natural ground, rock
standing tree														1										1	standing tree
water						1									1		1						1	4	water
abnormal environment			2			1				1			1									2		7	abnormal environment
high/cold temperature environment			1			1	5	3		1	3	3	1	2	2	1	3	3	3	7	5	7		51	high/cold temperature environment
other environments			2		3		2	1	2		2	2	3	1	3	1	1	3		1	1	1	3	32	other environments
other causal agent			2		5		4	2	5	2		4	1	3	6	3	1	3	2	7	2	4	22	78	other causal agent
no causal agent			5		9		19	11	13	9	17	10	8	4	9	7	12	6	11	11	6	16	17	200	no causal agent
unclassifiable			3						1	1	1		1			2		3			1		1	14	unclassifiable
total			304		303		306	300	312	264	216	227	239	204	190	221	190	242	198	215	235	211	268	4,645	total

Workers age of fatal and non-fatal accidents in non organic or organic 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	10	8	2	5	4	6	7	3	9	4	5	5	2	3	4	6	2	7	4	5	6	1	4	112	19 years old or less
20-29	62	81	69	65	66	60	57	67	57	45	40	40	38	40	34	34	29	47	27	35	46	26	31	1,096	20-29
30-39	59	64	69	60	80	81	88	79	74	67	58	73	55	50	51	46	50	44	43	45	45	35	66	1,382	30-39
40-49	72	60	61	56	58	56	48	57	51	49	45	41	52	51	39	59	39	57	58	51	48	59	72	1,239	40-49
50-59	80	98	72	81	75	84	77	77	91	69	47	42	64	37	46	55	46	58	41	55	58	57	60	1,470	50-59
60 years old or more	23	20	31	27	20	20	29	17	30	30	21	26	28	23	16	21	24	29	25	24	32	33	35	584	60 years old or more
total	306	331	304	294	303	307	306	300	312	264	216	227	239	204	190	221	190	242	198	215	235	211	268	5,883	total

Workers' number of workplace of fatal and non-fatal accidents in non organic or organic 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	46	43	36	35	40	44	42	37	34	18	24	20	21	16	15	16	10	11	12	17	13	14	14	578	9 workers or less
10-29	63	54	55	66	64	68	60	56	49	44	39	44	52	45	41	44	41	49	38	35	46	34	43	1,130	10-29
30-49	47	71	60	45	49	42	41	44	59	48	26	37	37	38	30	29	22	38	22	44	35	45	45	954	30-49
50-99	49	59	54	54	53	54	53	65	59	48	30	51	39	27	30	43	46	56	46	43	52	30	50	1,091	50-99
100-299	55	64	56	63	62	67	70	56	68	67	69	43	48	43	43	52	47	56	60	38	57	56	66	1,306	100-299
300 workers or more	46	40	43	31	35	32	40	42	43	39	28	32	42	35	31	37	24	32	20	38	32	32	50	824	300 workers or more
total	306	331	304	294	303	307	306	300	312	264	216	227	239	204	190	221	190	242	198	215	235	211	268	5,883	total

Month of fatal and non-fatal accidents in non organic or organic 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	24	27	31	22	35	28	20	27	16	24	16	30	23	12	16	23	14	22	22	19	18	17	22	508	January
February	32	30	27	25	31	24	22	30	21	28	17	17	23	22	16	16	13	14	17	14	17	16	23	495	February
March	23	28	28	26	21	18	29	24	34	26	12	13	14	17	16	17	7	22	20	18	20	17	16	466	March
April	18	20	30	28	23	19	15	23	26	25	23	16	22	17	10	12	18	23	13	25	17	14	18	455	April
May	27	28	20	23	22	22	22	25	16	17	18	20	14	18	12	29	15	28	25	24	25	25	23	498	May
June	31	38	19	21	25	36	29	26	33	24	19	18	17	16	14	22	14	17	15	19	18	20	26	517	June
July	20	31	26	29	26	27	32	29	28	18	23	33	21	17	30	17	20	21	10	17	16	17	24	532	July
August	28	30	29	30	29	30	35	25	37	25	20	16	19	20	17	15	19	16	17	21	27	22	33	560	August
September	27	27	24	21	29	26	34	22	26	22	10	20	17	21	11	20	14	20	14	15	22	21	37	500	September
October	33	18	21	27	21	31	26	22	31	22	12	12	21	19	21	18	16	25	9	17	27	11	17	477	October
November	19	28	22	22	18	19	23	26	20	18	19	13	28	11	13	12	21	21	20	15	14	17	15	434	November
December	24	26	27	20	23	27	19	21	24	15	27	19	20	14	14	20	19	13	16	11	14	14	14	441	December
total	306	331	304	294	303	307	306	300	312	264	216	227	239	204	190	221	190	242	198	215	235	211	268	5,883	total

Prefecture of fatal and non-fatal accidents in non organic or organic 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	6			1		2	2	7	2	6	2	1	3	2	2	2		1	3	3	3	3	58	Hokkaido
Aomori	2	1					1				2	1	1									1	1	10	Aomori
Iwate	1	2	3				1		1	1	1		2			1							1	14	Iwate

Miyagi			1		2		2	3	2	1	2	1	5	2			1	1	1			1	2	27	Miyagi
Akita		1	1		1					5			1	3		2		2	1				3	20	Akita
Yamagata			1		1		1	2	1				1	1	2	1	3	1	1					16	Yamagata
Fukushima	13	9	7		10		14	13	18	7	14	9	10	3	7	3	5	12	4	6	9	5	14	192	Fukushima
Ibaraki	7	17	12		14		14	15	13	16	13	11	12	15	15	8	16	11	8	6	11	10	12	256	Ibaraki
Tochigi	5	2	1		2		1	1	3	4	4	1	3	5	4		1	3	1		5	1	4	51	Tochigi
Gunma	4	15	9		4		10	4	10	7	5	4	7	3	4	5	2	4	3	7	5	6	3	121	Gunma
Saitama	17	24	15		17		15	15	16	15	15	15	14	13	12	19	11	18	20	11	13	17	13	325	Saitama
Chiba	15	15	21		12		17	16	15	11	7	16	6	7	16	6	17	21	9	15	6	17	14	279	Chiba
Tokyo	7	2	4		6		11	4	1	2	2	6		2	2	3	3	1	3	2	4	1	1	67	Tokyo
Kanagawa	5	6	11		14		13	13	15	11	14	10	10	4	8	9	5	13	7	8	7	11	14	208	Kanagawa
Niigata	13	13	11		11		8	12	10	15	8	7	11	7	8	5	5	10	4	3	6	8	11	186	Niigata
Toyama	6	7	1		6		2	7	4	6	3	4	4	2	3	7	5	5	5	3	8	4	9	101	Toyama
Ishikawa	1	2	3		1			1	2	1	1	3		1		1				1				18	Ishikawa
Fukui	2	3	12		3		6	7	7	5	2	5	5	6		8	6	9	3	10	5	5	7	116	Fukui
Yamanashi		1			1			1		1					1					2	1	1		10	Yamanashi
Nagano		1	3		1		1	2	1	3		1		1		3		4	2	2		3	2	30	Nagano
Gifu	4	6	5		4		3	3	4	8	4	6	5	3	2	3	1		3	1	6	1	7	79	Gifu
Shizuoka	11	10	15		17		12	8	15	7	11	7	12	6	9	11	10	11	8	7	15	6	12	220	Shizuoka
Aichi	15	15	16		15		11	15	9	6	6	10	11	6	10	13	5	10	7	10	13	8	8	219	Aichi
Mie	16	20	14		18		14	14	14	17	8	11	9	11	8	18	4	9	13	4	8	6	9	245	Mie
Shiga	2	5	3		7		4	4	5	6	4	4	3	3	3	6	1	3	5	1	5	2		76	Shiga
Kyoto	10	8	5		10		5	10	4	4		1	3	6		4	3	3	2	2	5	7	3	95	Kyoto

Osaka	40	29	42		28		33	33	31	21	26	27	24	13	16	34	12	25	22	28	15	20	15	534	Osaka
Hyogo	20	27	14		22		19	19	11	23	12	10	11	18	14	13	14	12	17	20	20	10	19	345	Hyogo
Nara		2	1		1		2	2	2		2		1	1				2					3	19	Nara
Wakayama	9	12	8		7		10	8	8	3	2	7	12	5	8	2	3	2	6	8	6	7	7	140	Wakayama
Tottori	2		2																					4	Tottori
Shimane	1				1		1			1	1	2			1					1	1			10	Shimane
Okayama	6	4	12		9		4	12	12	7	2	4	6	5	5	8	8	8	2	5	4	6	6	135	Okayama
Hiroshima	6	3	8		5		6	6	7	6	4	4	4	5	3	2	5	5	9	5	7	3	2	105	Hiroshima
Yamaguchi	15	19	9		12		19	15	17	12	5	8	11	13	10	11	16	11	10	12	16	12	15	268	Yamaguchi
Tokushima	8	6	6		8		9	5	13	7	6	3	9	4	1	1	6	3	4	5	9	2	6	121	Tokushima
Kagawa	8	3	4		7		8	1	5	4	4	1	2	2	2		2	2		4	5	2	4	70	Kagawa
Ehime	1	5	5		6		6	3	4	3	1	5	7	6	2		2		3	3	2	5	7	76	Ehime
Kochi		2	1		2		1	1		1		1		1	1		1	2	1		1	2	1	19	Kochi
Fukuoka	18	17	11		11		9	6	17	10	10	10	12	7	5	6	6	10	6	11	8	8	15	213	Fukuoka
Saga	1	2			1		1	4	2	2	2	2	1	3		2			2	2	1		1	29	Saga
Nagasaki			1					4					1	1	1					1	1			10	Nagasaki
Kumamoto	1	2	2				3	3	3	1	2	1		2	1		7	1			1	1	2	33	Kumamoto
Oita	5	1	3		2		1	5		1	1	2	3	4	2	2	1	3	1	1	2	3	7	50	Oita
Miyazaki		2					3		1		2	2		1	3		2	1		1	1	5	3	27	Miyazaki
Kagoshima	2	4			3		3	1	2	1	2	1				1	1	1		3		1	1	27	Kagoshima
Okinawa			1									2						1	2	1		1		8	Okinawa
total	306	331	304		303		306	300	312	264	216	227	239	204	190	221	190	242	198	215	235	211	268	5,282	total











kiln, caldron			1												1							2	kiln, caldron	
electric equipment					1																		1	electric equipment
human power machine, tools																								human power machine, tools
tools						1																	1	tools
other equipments, facilities			1												1								2	other equipments, facilities
temporary buildings, establishments							1						1										4	temporary buildings, establishments
hazards, harmful substances	2	4	1		1	3				1		1	1	1	1	1	2						20	hazards, harmful substances
materials					1					1													2	materials
load									1													1	2	load
natural environment	1	1	2			1	1								1		1					1	10	natural environment
other causal agent																								other causal agent
no causal agent																1							1	no causal agent
unclassifiable															1								1	unclassifiable





centrifugal machine																									centrifugal machine		
mixer, grinder		1					1					1													3	mixer, grinder	
roll machine (except printingroll machine)																									1	roll machine (except printingroll machine)	
injection molding machine																											injection molding machine
food manufacturing machine																											food manufacturing machine
printing machine																											printing machine
industrial robot																										1	industrial robot
other general power machines	1	1	1																							7	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	crane
mobile crane																											mobile crane
derrick crane																											derrick crane
elevator, lift																										1	elevator, lift





pressure vessel															1												1	pressure vessel
other pressure vessels				1																							1	other pressure vessels
chemical facilities									1	5		1			3	1											11	chemical facilities
gas welding equipment																												gas welding equipment
arc welding equipment																												arc welding equipment
other welding equipment																												other welding equipment
kiln, caldron			1													1											2	kiln, caldron
industrial dryer																												industrial dryer
other kiln, caldron																												other kiln, caldron
transmission																												transmission
electric power facilities					1																						1	electric power facilities
other electrical equipment																												other electrical equipment
human power cranes																												human power cranes
human power hauling equipment																												human power hauling equipment
human power machine																												human power machine

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



no causal agent																	1									1	no causal agent
unclassifiable															1											1	unclassifiable
total	5	9	6	3	3	6	3	1	1	4	6	2	3	4	3	6	6	4		3	1	1			80	total	

Workers age of fatal accidents in non organic or organic 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											1													1	19 years old or less
20-29		1	1	1		2	1						1	1	2	2				1				13	20-29
30-39	1	3	1		1	1				2	3	1	1	1		2	4	2		1				24	30-39
40-49	2	2	2			1				1	2	1				1	1			1	1			15	40-49
50-59	1	3	2	2	2	2	2	1	1	1			1	1		1								20	50-59
60 years old or more	1													1	1		1	2				1		7	60 years old or more
total	5	9	6	3	3	6	3	1	1	4	6	2	3	4	3	6	6	4		3	1	1		80	total

Workers' number of workplace of fatal accidents in non organic or organic 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									1								1	1						3	9 workers or less
10-29		6		1	1	2				1			1	1		1	3					1		18	10-29
30-49	2	1	3		1	1	2	1		2					1	1		1		1	1			18	30-49
50-99				2	1	1						1				1		1						7	50-99

100-299	1		2			2				1	6		1	2	2	3	1	1		1				23	100-299	
300 workers or more	2	2	1										1	1	1										11	300 workers or more
total	5	9	6	3	3	6	3	1	1	4	6	2	3	4	3	6	6	4		3	1	1		80	total	

Month of fatal accidents in non organic or organic 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			3	1								6	January
February						1								1											2	February
March	2		1			1				1				2				1		2					10	March
April						1				1				1				1					1		5	April
May	1											1				1	1	1							5	May
June	1	4									1														6	June
July		1	2			1		1							1		1								7	July
August		1		1	2					1					1										6	August
September		2					1						1			1	1	1							7	September
October	1		1		1		1		1						1		2								8	October
November			1	1							1		1			1					1				6	November
December		1		1		2	1			1	4	1										1			12	December
total	5	9	6	3	3	6	3	1	1	4	6	2	3	4	3	6	6	4		3	1	1		80	total	

Prefecture of fatal accidents in non organic or organic chemical products in 1999-2021







Miyazaki																														Miyazaki	
Kagoshima																												1		1	Kagoshima
Okinawa																														Okinawa	
total	5	9	6	3	3	6	3	1	1	4	6	2	3	4	3	6	6	4		3	1	1					80	total			

Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

Return to [https://www.jisha.or.jp/english/statistics/2021e\\_industry.html](https://www.jisha.or.jp/english/statistics/2021e_industry.html)