Fatal and non-fatal accidents in chemical fertilizer products in Japan in 1999-2022

chemical fertilizer products industry Code No.010809

Type of accidents in chemical fertilizer products in 1999-2022

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	2022	total
fall from height	17	16	17	15	16	12	12	19	7	21	11	8	16	10	10	6	7	10	8	12	12	5	9	10	286
falling to same level	8	6	5	4	7	2	7	11	9	18	8	10	12	4	5	6	6	15	8	10	10	8	13	13	205
crash	3	2	5	2	6		4	5	6	2	5	4	5		4	6	5	5	2	2	1	2	4	1	81
struck by flying or falling object	6	3	1	7		11	3	7	4	2	1	2	2	1	4		2	3	2	6		3		3	73
collapse	2	2	4	2	1		1		3	1	1	2	1	1			2	1		1	1		1		27
crashed by	5	4	4	4	1	2	4	3	5	3	4	2	4	2	4	5		2	2	1	2	1	3		67
caught in/between	27	24	25	19	24	23	30	20	15	18	25	23	17	21	17	14	11	20	12	10	17	15	13	17	457
cut	6	4	3	2	4	5	4	2	8	5	2		7		2	2	2	1	1	1	1	2	1		65
injury to the sole of the foot		1														1	1		1						4
drown		1																							1
contact to high/low-	5		5	3	2	2	4	2	3	3	2	2	5		3	2	2	1	1	4	1		2	2	56

temperature																									
contact to harmful substance	2	3	3	2	1	7	1	2	2	3		3	1			2	1	5	1	1		2	2	3	47
electric shock									1									2							3
explosion				1		2			1	1					2										7
burst																									
fire			1				1																		2
traffic accident (public road)	2	1	2	3	1	3	1		1	1			1	1	1	3			1	3	1		1		27
traffic accident (others)																									
reaction to motion/improper motion	7	6	6	3	2	4	6	7	8	8	7	9	4	5	3	6	5	3	7	9	5	2	6	5	133
others			1				1										1						15	1	19
unclassifiable		1																							1
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Causal agents (large) of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	15	17	14	10	19	15	19	13	18	13	17	15	16	11	14	11	7	15	6	7	10	9	12	7	310

crane, conveying machine	22	24	19	18	12	16	18	20	11	17	15	14	14	11	13	12	9	13	7	11	11	11	8	9	335
other equipment	14	10	18	8	15	14	12	11	19	17	15	9	16	8	11	5	8	14	10	12	14	9	12	10	291
temporary buildings, establishments	10	11	13	13	11	9	11	19	10	21	9	8	13	6	7	8	8	12	12	15	8	4	11	11	260
substance, material	8	4	6	6	2	10	7	6	6	3		7	5	2	4	6	4	5	3	3	2	4	4	5	112
load	13	4	7	9	5	5	5	6	7	11	5	7	6	4	5	7	6	6	4	6	3	3	1	7	142
environment	4		1	1	1	2	3	1	1	1	1	1	4			1	2	3	2	2	1		2	3	37
others	4	4	4	2		2	4	2	1	3	4	4	1	3	1	3	1		2	4	2		20	3	74
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Causal agents (middle) of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine			1		1														1						3
power transmission mechanism	1	2	1	1	2		2		1	3		1	2	1	4			2			2	1	2		28
woodworking machine		2			2	1	2	2	1		1		1							1	1				14

construction machine	2		2	2	2						2	1	1			2					1		1	1	17
metal manufacturing machine	1		1				1	1	2	4	3		1		1	1		2			1		1	1	21
general machine	11	13	9	7	12	14	14	10	14	6	11	13	11	10	9	8	7	11	5	6	5	8	8	5	227
mobile silviculture machine																									
crane	1	1		1		1						1		1		2						1			9
conveying machine	20	21	17	15	11	12	18	20	10	17	15	13	14	9	11	9	9	13	6	8	11	10	7	9	305
vehicle	1	2	2	2	1	3			1					1	2	1			1	3			1		21
pressure vessel							2		1	1				1	1								1		7
chemical facilities	1	1			1				1	1								3		1				1	10
welding equipment	1					1												1							3
kiln, caldron	2		1				1	1	1	2	1	3		1	1							1	1		16
electric equipment									1			1			1				1						4
human power machine, tools	2	2	2	1	2	4	3		5	3	3	2	1		3	1		1			3	1		1	40
tools	3	5	8	6	7	4	3	5	7	6	8	3	10	3	3	3	4	6	7	7	10	6	8	4	136
other equipments,																									

facilities	5	2	7	1	5	5	3	5	3	4	3		5	3	2	1	4	3	2	4	1	1	2	4	75
temporary buildings, establishments	10	11	13	13	11	9	11	19	10	21	9	8	13	6	7	8	8	12	12	15	8	4	11	11	260
hazards, harmful substances	1	3	4	3	2	9	1	2	4	3		3	1		3	3	2	4		2		2	2	2	56
materials	7	1	2	3		1	6	4	2			4	4	2	1	3	2	1	3	1	2	2	2	3	56
load	13	4	7	9	5	5	5	6	7	11	5	7	6	4	5	7	6	6	4	6	3	3	1	7	142
natural environment	4		1	1	1	2	3	1	1	1	1	1	4			1	2	3	2	2	1		2	3	37
other causal agent	3	2	1	1		2	1				1	1								1			15	1	29
no causal agent	1	2	2	1			3	2	1	3	3	3	1	3	1	3	1		2	3	2		5	2	44
unclassifiable			1																						1
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Causal agents (small) of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine			1		1														1						3
power transmission mechanism			1		2		2		1	3		1	2	1	4			2			2	1	2		24

circular sawing machine					1		2	1	1				1							1					7
band sawing machine																									
wood planer machine								1																	1
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																					1				1
other woodworking machines					1						1														2
leveling, transporting or loading machine			2		2						2	1	1			1					1		1	1	12
excavating machine																1									1
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe										1					1						1				3
drill press, milling machine																1									1
grinding machine, buffing machine										2	1							2					1		6
power press							1		1	1	1													1	5
forging pressure hammer																									
shearing machine											1														1
other metal manufacturing machines			1					1	1				1												4
centrifugal machine													1												1
mixer, grinder							2	3	5	4	3	3	1	2	2	2	2	3	1		1		1	1	36
roll machine (except printingroll machine)			1		1		2	1			2	1	1	1	1	1		2	1		1		1		17

injection molding machine					1		1	1															1		4
food manufacturing machine																									
printing machine											1												2	1	4
industrial robot			1				1							1											3
other general power machines			7		10		8	5	9	2	5	9	8	6	6	5	5	6	3	6	3	8	3	3	117
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane												1		1		1									3
mobile crane																1									1
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																						1			1
truck			3		2		4	5	3	4	3	5	5	3	3	2	2	2		1	2	2	1		52
forklift			6				6	9	2	5	4	2	4		4	3	2	3		3	4	3	2	2	64
railway equipment																									
conveyor			6		8		6	4	4	6	7	6	4	6	4	3	5	8	6	3	5	5	3	5	104
loader			2		1		1	1	1	2			1											2	11
straddle carrier																									
rough terrain hauler																									
other powered conveying machines							1	1			1					1				1			1		6
cars, bus, motorcycle			2		1				1					1	2	1			1	3			1		13
railway vehicle																									
other vehicles																									
boiler							1			1															2

pressure vessel							1							1											2
other pressure vessels									1						1								1		3
chemical facilities					1				1	1								3		1				1	8
gas welding equipment																									
arc welding equipment																		1							1
other welding equipment																									
kiln, caldron									1	2				1								1			5
industrial dryer							1				1	1			1								1		5
other kiln, caldron			1					1				2													4
transmission																			1						1
electric power facilities									1			1													2
other electrical equipment															1										1
human power cranes																					1			1	2
human power hauling equipment			1		1		2		4		3	2			1						2				16

human power machine																									
hand tool			1		1		1		1	3			1		2	1		1				1			13
ladder			4		4		1	4	3	5	5	1	6	3		1	2	2	4	5	7	4	2	1	64
slinging tool			1		1		1		1																4
other tools			3		2		1	1	3	1	3	2	4		3	2	2	4	3	2	3	2	6	3	50
other equipment, facilities			7		5		3	5	3	4	3		5	3	2	1	4	3	2	4	1	1	2	4	62
scaffolding											1				1										2
timbering																									
stairs, landing stage			1		4		3	4		5	4	2	1	1	1	3		3	1	4	1		3	4	45
opening														1								1			2
roof, beam, haze, crossbeam, principal rafter							1			1							1	1							4
working platform, boot board			3		1			3	4	2	1	3	3	1	1			1	2	1	2	1		3	32
passage			3		4		6	7	3	9	1	2	4	1	2	5	2	3	4	8	4	2	7	4	81
building, establishment			6		1		1	2	1	4	2	1	5		2		5	1	2	1			1		35
other temporary buildings,					1			3	2					2				3	3	1	1				16

establishments																									
explosive substance									1						2										3
inflammable substance																		1							1
inflammable gas										1															1
harmful substance			2		2		1	2	1	2						1	1	1				1	1	1	16
radiation																									
other hazards, harmful substances			2						2			3	1		1	2	1	2		2		1	1	1	19
metal material			2				2	3				3	2			2	1		3	1	2	2	1	1	25
lumber, bamboo							2																		2
stone, sand, substance																									
other materials							2	1	2			1	2	2	1	1	1	1					1	2	17
load			7		5		5	6	7	10	4	7	6	4	5	6	6	6	4	6	2	2	1	7	106
machine/equipment as load										1	1					1					1	1			5
natural ground, rock							1										1								2
standing tree																				1					1
water																		1	1						2
abnormal																									

environment									1															1	2
high/cold temperature environment							2						1				1			1	1		1		7
other environments			1		1			1		1	1	1	3			1		2	1				1	2	16
other causal agent			1				1				1	1								1			15	1	21
no causal agent			2				3	2	1	3	3	3	1	3	1	3	1		2	3	2		5	2	40
unclassifiable			1																						1
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Workers age of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	2	5		1	1	3	1				1			2	2	3		1	1	2				1	26
20-29	13	9	11	13	10	9	13	9	12	13	7	6	12	9	6	6	6	3	5	4	9	4	18	9	216
30-39	16	19	18	10	13	20	15	16	23	21	16	19	14	10	13	11	8	15	11	5	8	8	12	5	326
40-49	20	15	14	14	13	12	19	22	10	15	17	16	21	10	8	10	14	17	14	26	15	15	12	14	363
50-59	29	19	28	22	20	20	20	19	18	22	18	15	13	7	16	12	10	16	9	14	12	6	20	15	400
60 years old or more	10	7	11	7	8	9	11	12	10	15	7	9	15	7	10	11	7	16	6	9	7	7	8	11	230
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Workers' number of workplace of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

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	2022	total
9 workers or less	18	14	15	12	13	15	27	20	8	19	14	12	17	6	9	8	6	8	3	12	8	4	8	6	282
10-29	32	30	28	26	21	28	21	28	19	24	18	13	31	17	21	21	14	27	12	14	17	13	14	14	503
30-49	13	13	17	11	12	9	10	14	15	14	15	14	12	5	8	8	9	14	12	4	8	7	22	7	273
50-99	12	4	8	6	9	10	12	11	15	13	9	15	11	4	9	7	4	9	16	14	8	6	8	15	235
100-299	12	11	12	10	6	8	7	4	12	10	8	8	2	8	5	3	11	8	3	10	7	7	16	10	198
300 workers or more	3	2	2	2	4	3	2	1	4	6	2	3	2	5	3	6	1	2		6	3	3	2	3	70
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Month of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	14	5	11	5	3	6	5	5	6	3	5	4	9	5	5	7	5	5	5	7	3		6	8	137
February	5	5	14	5	6	8	5	8	8	10	3	5	10	5	8	5	6	5	7	8	4	2	7	6	155
March	11	7	5	7	10	6	5	5	4	14	11	8	7	3	6	4	4	7	3	6	6	3	4	5	151
April	5	10	6	7	5	5	10	7	7	8	8	5	8	5	3	3	2	9	5	2	8	2	12	3	145
May	10	2	6	6	6	3	7	6	3	6	6	5	4	2	4	2	4	3	3	6	3	3	11	3	114
June	8	7	9	4	5	5	3	8	7	7	8	5	3	5	1	4	4	6	3	3	4	8	5	3	125

July	3	6	7	6	4	3	6	6	3	5	3	5	7	4	2	3	5	3	5	2		3	3	3	97
August	7	9	2	7	8	7	7	6	6	6	6	6	6	5	5	2	3	2		4	6	6	5	4	125
September	3	5	3	4	5	8	10	7	7	9	6	4	6	2	2	6	1	4	3	3	6	4	5	3	116
October	6	11	5	4	5	9	9	2	6	7	3	4	8	2	7	11	4	10	3	7	3	5	5	2	138
November	6	3	5	9	3	10	4	8	9	8	3	9	3	5	7	3	3	9	3	5	4	1	3	6	129
December	12	4	9	3	5	3	8	10	7	3	4	5	4	2	5	3	4	5	6	7	4	3	4	9	129
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Prefecture of fatal and non-fatal accidents in chemical fertilizer products in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	9	8	4				7	7	7	7	5	8	5	3	4	5	3	5	4	2	7	4	14	5	123
Aomori	2	1	1							1	1									1	1		2		10
Iwate	3	2	2		2		4	1	1	4		3	3	5		3		2	3	1	3	2		2	46
Miyagi	3	1					1		2		1	2	1		1		2	2	2	1	1	1	1	1	23
Akita			1		1		1		3	2	1				4	1	1		1	3	2		4	3	28
Yamagata	1	1			1		1		1			1									1		1	1	9
Fukushima	1	1	5		4			5	2		3	3			1		1	2	1	2				1	32
Ibaraki	6	2	4		2		3	1		2	1		3			1	4	2		3	2	1	2	2	41
Tochigi	1						2			2	1		4	2		2		2	1		1		1	2	21
Gunma	3	4	1				1	1	1		2		1		2			2	1	2		1	2	1	25

Saitama	1	1			5		3	5	5	6	1		4	2	2	1	3	2	2	1	2		1	2	49
Chiba	1		6		1		5	1	1	5		1	1	1	1	2	1	3		4		5		2	41
Tokyo	1	1	3		1			1	1	1	2		2	3		1	2		4		3		1	4	31
Kanagawa	7	1	1		4		6	2	1	5	2	3	4	3	3	1		2	1			1	1		48
Niigata	4		2					1	2	1		1	2	2		3	1	1		1		1	1		23
Toyama	2	3			1		2	2	3	4	3	2	4	4		1		2			1	1			35
Ishikawa	1	2							1						1			3		1				1	10
Fukui								2									1								3
Yamanashi	1				1		1		1	3	2	1				1		2				1	1		15
Nagano		1	1				1			1		1						1							6
Gifu	4	2	1		3		2	3	5	1		3	4				1	2				1		1	33
Shizuoka	3	5	5		3		3	2	1	2	2				1	2		1	1	1	3	1	2		38
Aichi	2	6	4		3		3	6	2	6	3	4	5	2	4	5	5	8		11	1	2	2	3	87
Mie		3	7		1		6	1	4	2	1	5	2	1	2	3		3	1				3	1	46
Shiga		1			1		1		2		3	1	1	1	1		2		1			1			16
Kyoto			1		5		2														1				9
Osaka	4	1	4		3		2	5	8	4	4	3	1		4	4	2	3	3	4	2	2	4	3	70
Hyogo	6	6	6		6		5	9	4	5	4	3	5	4	5	4	6	1	5	8	7	3	9	3	114
Nara		1	1		2		1	1							3				1			1			11
Wakayama	2		1		1			1		1	1	4								1	2				14
Tottori							1				1														2

Shimane					1				1	1											1		1	1	6
Okayama	2	2	2				1	2		4		2	2	2	1	1	1	5	3	1	1	3	2	2	39
Hiroshima	1	1	1		5		1	2		2	2	2	1	1			1	1	1		3			1	26
Yamaguchi	4	2	2		3		1		1	1	6	6	1	1	2			3	3				1	2	39
Tokushima	2	3	2					3	1	1		1	2	1	2	1		1	3	2	1	2	2		30
Kagawa	2	1	1		1		5	2	1		2		2	1	1										19
Ehime									1	2	2	2			1		2						1	1	12
Kochi	1		1					1		1			1	1	1	1									8
Fukuoka	1	1	3				3	4	6	4	6		8	3	6	4	2	2	4	4	2	4	2	6	75
Saga		3	1		2		2	1																1	10
Nagasaki			2		1			1						1									1		6
Kumamoto	3	1	1		1			2	1	2	1	2	3			2		3		1			2	1	26
Oita	6	4	2				1	1		1	2	1	1	1	1		1			3			3	1	29
Miyazaki		1	2				1		1	2										2	1	2	2	1	15
Kagoshima			1					1	2		1		1		1	2	2	1			2		1		15
Okinawa		1						1					1			2	1	1							7
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

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Fatal accidents in chemical fertilizer products in Japan in 1999-2022

chemical fertilizer products industry Code No.010809

Type of fatal accidents in chemical fertilizer products in 1999-2022

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	2022	total
fall from height																									
falling to same level																									
crash																									
struck by flying or falling object								1		1													1		3
collapse																									
crashed by																									
caught in/between				1	1	1	1										1								5
cut																									
injury to the sole of the foot																									

drown																									
contact to high/low-temperature																									
contact to harmful substance																							1		1
electric shock																		1							1
explosion																									
burst																									
fire																									
traffic accident (public road)				1																					1
traffic accident (others)																									
reaction to motion/improper motion																									
others																									
unclassifiable					1																				1
total				2	2	1	1	1		1							1	1					2		12

Causal agents (large) of fatal accidents in chemical fertilizer products in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine							1										1								2
crane, conveying machine				2	1	1		1															1		6
other equipment																		1							1
temporary buildings, establishments																									
substance, material																							1		1
load										1															1
environment																									
others					1																				1
total				2	2	1	1	1		1							1	1					2		12

Causal agents (middle) of fatal accidents in chemical fertilizer products in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine							1										1								2
mobile silviculture machine																									
crane																							1		1
conveying machine				1	1	1		1																	4
vehicle				1																					1
pressure vessel																									
chemical facilities																									
welding equipment																		1							1
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments,																									

facilities																									
temporary buildings, establishments																									
hazards, harmful substances																							1		1
materials																									
load										1															1
natural environment																									
other causal agent																									
no causal agent																									
unclassifiable					1																				1
total				2	2	1	1	1		1							1	1					2		12

Causal agents (small) of fatal accidents in chemical fertilizer products in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder							1										1								2
roll machine (except printingroll machine)																									

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines																									
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																							1		1
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift																									
railway equipment																									
conveyor					1																				1
loader				1		1		1																	3
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle				1																					1
railway vehicle																									
other vehicles																									
boiler																									

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

human power machine																									
hand tool																									
ladder																									
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																									
building, establishment																									
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																							1		1
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load										1															1
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water																									
abnormal																									

environment																									
high/cold temperature environment																									
other environments																									
other causal agent																									
no causal agent																									
unclassifiable					1																				1
total				2	2	1	1	1		1							1	1					2		12

Workers age of fatal accidents in chemical fertilizer products in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									
20-29					1		1	1									1						1		5
30-39																									
40-49																									
50-59				1	1	1												1					1		5
60 years old or more				1						1															2
total				2	2	1	1	1		1							1	1					2		12

Workers' number of workplace of fatal accidents in chemical fertilizer products in 1999-2022

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	2022	total
9 workers or less																									
10-29						1		1										1					1		4
30-49				2			1										1								4
50-99					1																		1		2
100-299					1					1															2
300 workers or more																									
total				2	2	1	1	1		1							1	1					2		12

Month of fatal accidents in chemical fertilizer products in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January								1																	1
February																									
March				1																					1
April				1	1																				2
May							1																		1
June																							1		1

July																		1							1
August																							1		1
September					1					1															2
October						1																			1
November																	1								1
December																									
total				2	2	1	1	1		1							1	1					2		12

Prefecture of fatal accidents in chemical fertilizer products in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido				1			1																		2
Aomori																									
Iwate																									
Miyagi																									
Akita										1															1
Yamagata																									
Fukushima				1	1																				2
Ibaraki					1																				1
Tochigi																									
Gunma								1																	1

Saitama																									
Chiba																									
Tokyo																									
Kanagawa																									
Niigata																									
Toyama																									
Ishikawa																		1							1
Fukui																									
Yamanashi																									
Nagano																									
Gifu																									
Shizuoka																									
Aichi																									
Mie																									
Shiga																									
Kyoto																									
Osaka						1																			1
Hyogo																							1		1
Nara																									
Wakayama																									
Tottori																									

Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka																	1								1
Saga																									
Nagasaki																									
Kumamoto																									
Oita																							1		1
Miyazaki																									
Kagoshima																									
Okinawa																									
total				2	2	1	1	1		1							1	1					2		12

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

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