Fatal and non-fatal accidents in dyeing in Japan in 1999-2022

dyeing industry Code No.010204

Type of accidents in dyeing 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	21	23	16	17	22	22	19	11	16	13	14	8	10	12	7	18	9	10	10	8	8	10	8	329
falling to same level	28	28	20	15	21	19	19	18	18	13	21	8	13	14	15	12	18	13	17	15	15	13	9	7	389
crash	7	12	15	10	3	7	5	3	6	7	4	6	3	3	5	3	6	2	1	2	9	3	1	3	126
struck by flying or falling object	11	12	3	4	4	7	5	8	3	6	2	2	3	4	2	3	3	5	1	1	1		4	4	98
collapse	3	1	3		1	2		1			2	1		3	1		1	1	1			1			22
crashed by	8	4	5	6	5	3	4	2	4	3	2	2	2	3	2	1	2	2	5	2	1	3	2		73
caught in/between	83	64	69	55	56	39	45	39	21	32	29	22	22	27	31	24	23	25	28	20	24	15	20	22	835
cut	4	9	4	3	6	3	5	4	3	3	5	3	2		1	1	1	1	4		6	1	3	9	81
injury to the sole of the foot												1				1				1					3
drown		1																							1
contact to high/low-	16	20	24	10	8	10	15	7	3	9	6	11	6	6	5	4	5	8	13	5	4	6	8	7	216

temperature																									
contact to harmful substance	6	9	8	5	7	7	4	3	3	3	7	2	2		3	3	2	6	1	1	2	5	2	3	94
electric shock	1						1		1																3
explosion						1	1																		2
burst	1																								1
fire	1			1		1																			3
traffic accident (public road)	1	1	1	1	2	1	1	1		3			2				1			1					16
traffic accident (others)																									
reaction to motion/improper motion	12	10	8	14	6	11	12	10	5	6	7	7	4	7	4	4	7	8	8	4	10	3	4	3	174
others		1				1	1			1									1			1	1		7
unclassifiable			1			1																			2
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Causal agents (large) of fatal and non-fatal accidents in dyeing 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	78	52	68	52	53	36	47	34	26	33	31	28	16	26	28	21	24	18	28	17	23	14	23	23	799

crane, conveying machine	7	19	13	13	10	7	7	3	9	10	6	1	7	3	7	5	5	10	5	4	2	1	3	6	163
other equipment	51	53	46	30	36	29	39	28	12	24	19	24	14	20	14	8	23	21	22	18	19	15	14	15	594
temporary buildings, establishments	28	35	26	22	23	26	28	27	18	18	26	14	14	16	20	13	22	17	19	15	20	18	13	11	489
substance, material	19	18	15	13	6	19	9	10	5	8	11	6	6	4	6	6	5	8	5	4	5	6	3	6	203
load	9	7	7	8	2	4	8	10	5	4	3	2	4	4	1	4	4	4	2		8	1	2		103
environment	2	3	2		3	3		2		3		2	3	1		4	1	1	2	2	1	2	3	3	43
others	5	6	7	2	3	11	2	1	3	2	2	2	3	3	5	2	3	1	7	2	2	2	3	2	81
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Causal agents (middle) of fatal and non-fatal accidents in dyeing 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						2
power transmission mechanism	5	5	5	4	2	2	1	1	1		3	1	1		2	2		1		2			5		43
woodworking machine		2									1					1									4

construction machine																									
metal manufacturing machine	4		4	1	1	1		2						1		1						1	1	2	19
general machine	69	44	59	47	50	33	46	31	25	33	27	27	15	25	26	17	24	17	27	15	23	13	17	21	731
mobile silviculture machine																									
crane	3	2	3	3	3		4	1		1	3		2	1	2	1	1	4	2	1	1				38
conveying machine	3	15	10	7	6	6	3	2	9	6	2	1	3	1	5	4	3	6	3	2	1	1	3	5	107
vehicle	1	2		3	1	1				3	1		2	1			1			1				1	18
pressure vessel	11	11	12	4	6	4	4	2	2	4	3	6		2		1	2		5	1	1	4	5	1	91
chemical facilities		2									2														4
welding equipment					1																				1
kiln, caldron	5	1	2	1	1	1	2	2		1	1				3			3	1		1		1	1	27
electric equipment	1	1	1			1	2		1					1											8
human power machine, tools	18	20	10	16	13	10	14	7		4	5	6	2	7	4	5	6	3	7	5	8	5	1	5	181
tools	9	16	16	7	8	10	14	12	6	10	5	9	9	5	4	2	13	10	5	9	8	5	6	2	200
other equipments,																									

facilities	7	2	5	2	7	3	3	5	3	5	3	3	3	5	3		2	5	4	3	1	1	1	6	82
temporary buildings, establishments	28	35	26	22	23	26	28	27	18	18	26	14	14	16	20	13	22	17	19	15	20	18	13	11	489
hazards, harmful substances	10	11	9	6	4	14	7	5	2	4	8	3	4	2	5	3	2	5	1	1	2	5	2	3	118
materials	9	7	6	7	2	5	2	5	3	4	3	3	2	2	1	3	3	3	4	3	3	1	1	3	85
load	9	7	7	8	2	4	8	10	5	4	3	2	4	4	1	4	4	4	2		8	1	2		103
natural environment	2	3	2		3	3		2		3		2	3	1		4	1	1	2	2	1	2	3	3	43
other causal agent	2	2	4	1		4			1	1							1	1				1	1		19
no causal agent	2	3	2	1	3	7	2	1	2	1	2	2	3	3	4	2	2		7	2	2	1	2	2	58
unclassifiable	1	1	1												1										4
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Causal agents (small) of fatal and non-fatal accidents in dyeing 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
power transmission mechanism			5		2		1	1	1		3	1	1		2	2		1		2			5		27

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

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																						1			1
drill press, milling machine																									
grinding machine, buffing machine			1		1																				2
power press			1					1																	2
forging pressure hammer																									
shearing machine			1											1									1		3
other metal manufacturing machines			1					1								1								2	5
centrifugal machine							1					1									1			2	5
mixer, grinder			1														2							1	4
roll machine (except printingroll machine)			20		20		15	11	7	6	8	15	5	11	17	8	9	7	11	11	7	3	7	6	204

injection molding machine																									
food manufacturing machine																									
printing machine					2		1	2				1							3				1		10
industrial robot																									
other general power machines			38		28		29	18	18	27	19	10	10	14	9	9	13	10	13	4	15	10	9	12	315
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			1		1		2			1			1		1	1		3	1	1	1				14
mobile crane																									
derrick crane																									
elevator, lift			1		2		2	1			3			1	1		1								12
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			1										1					1	1						4
truck			4		2		1	1	2		1		1		2								1	2	17
forklift			4		1		1	1	6	3	1	1	2	1	2	2	2	3	3	2	1	1		1	38
railway equipment																									
conveyor			1		1				1	1								1						2	7
loader																1									1
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1		2		1			2					1	1	1	2					2		13
cars, bus, motorcycle					1					3	1		2	1			1			1				1	11
railway vehicle																									
other vehicles																									
boiler												1							1						2

pressure vessel			12		6		4	2	2	4	3	5		2		1	2		4	1	1	4	5	1	59
other pressure vessels																									
chemical facilities											2														2
gas welding equipment																									
arc welding equipment					1																				1
other welding equipment																									
kiln, caldron			2				1	2							1			2	1				1		10
industrial dryer					1		1			1	1				2						1			1	8
other kiln, caldron																		1							1
transmission			1				1																		2
electric power facilities									1					1											2
other electrical equipment							1																		1
human power cranes												1													1
human power hauling equipment			9		12		10	6		3	3	4	2	7	4	5	6	3	6	5	6	5		3	99

human power machine			1				1																		2
hand tool					1		3	1		1	2	1							1		2		1	2	15
ladder			9		4		6	7	1	9	3	4	6	4	3	2	9	5	2	6	2	3	4	1	90
slinging tool								1		1		1									1				4
other tools			7		4		8	4	5		2	4	3	1	1		4	5	3	3	5	2	2	1	64
other equipment, facilities			5		7		3	5	3	5	3	3	3	5	3		2	5	4	3	1	1	1	6	68
scaffolding					1																	1			2
timbering																									
stairs, landing stage			3		7		8	12	5	3	4	4	2	6	6	4	2	2	6	3	6	4	1	4	92
opening												2			1					1					4
roof, beam, haze, crossbeam, principal rafter			1				2				1	1			1		1		1			1			9
working platform, boot board			1		2		6	4	3	5	3		4	1	2	2	5	4	4	2	4	3	2	3	60
passage			15		8		7	7	7	8	13	4	8	7	7	5	13	9	6	7	9	6	7	2	155
building, establishment			3		3		3	1		2	3	2		1	2	1		1	2	1	1	3	3	1	33
other temporary buildings,			3		2		2	3	3		2	1		1	1	1	1	1		1				1	23

establishments																									
explosive substance							1																		1
inflammable substance											1	1						1							3
inflammable gas																									
harmful substance			7		4		3	4			3		1		1	2	1	2				1	1	1	31
radiation																									
other hazards, harmful substances			2				3	1	2	4	4	2	3	2	4	1	1	2	1	1	2	4	1	2	42
metal material			2					1	1		2	1	1	2		1		1	1	1	2	1	1	1	19
lumber, bamboo					1		1											1		1				1	5
stone, sand, substance																									
other materials			4		1		1	4	2	4	1	2	1		1	2	3	1	3	1	1			1	33
load			5		2		8	10	4	4	3	2	3	4	1	4	4	3	1		8	1	2		69
machine/equipment as load			2						1				1					1	1						6
natural ground, rock																									
standing tree																						1			1
water								1									1	1	1						4
abnormal																									

environment																									
high/cold temperature environment			1		2			1		2		2	1			4			1	1	1	1	3	2	22
other environments			1		1					1			2	1						1				1	8
other causal agent			4						1	1							1	1				1	1		10
no causal agent			2		3		2	1	2	1	2	2	3	3	4	2	2		7	2	2	1	2	2	45
unclassifiable			1												1										2
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Workers age of fatal and non-fatal accidents in dyeing 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	5	5	3	3	1	2	4					1			2	1	2	2	1	1	4	1	1	2	41
20-29	24	25	22	18	13	12	15	14	7	13	9	10	6	5	10	6	13	10	10	10	8	7	15	6	288
30-39	22	25	20	27	23	25	25	19	10	22	27	20	16	11	10	7	14	9	20	9	12	9	10	9	401
40-49	28	36	33	25	18	17	21	14	12	22	16	13	7	15	13	9	24	23	15	13	19	8	18	18	437
50-59	81	81	79	53	63	54	54	44	34	24	23	18	21	20	25	13	11	19	22	11	13	14	10	16	803
60 years old or more	39	21	27	14	18	25	21	24	15	21	23	17	17	26	21	27	23	17	22	18	24	20	10	15	505
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Workers' number of workplace of fatal and non-fatal accidents in dyeing 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	19	30	21	25	19	25	20	11	7	5	13	7	6	14	12	5	11	3	11	1	6	2	2	9	284
10-29	57	37	45	41	33	29	33	32	21	29	26	23	13	19	17	16	22	21	23	14	19	14	18	19	621
30-49	41	40	46	20	22	17	21	17	13	18	14	13	14	13	19	9	19	10	14	12	17	11	9	10	439
50-99	35	34	24	21	30	26	27	27	14	13	16	13	19	16	20	14	16	24	18	15	17	10	14	12	475
100-299	44	49	43	28	32	34	37	22	22	33	25	21	15	15	13	18	15	20	23	18	18	21	19	14	599
300 workers or more	3	3	5	5		4	2	6	1	4	4	2				1	4	2	1	2	3	1	2	2	57
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Month of fatal and non-fatal accidents in dyeing 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	11	5	19	11	15	10	11	14	7	10	10	10	7	9	6	8	5	2	11	2	12	3	6	2	206
February	16	24	12	11	12	17	12	13	9	10	10	3	9	5	5	5	8	3	8	5	9	10	4	8	228
March	14	18	15	11	5	14	12	11	5	13	2	6	6	7	3	4	8	10	12	6	7	5	6	5	205
April	19	19	13	12	7	10	10	12	9	11	10	7	1	11	8	4	11	7	16	6	5	6	3	5	222
May	23	12	22	11	11	6	10	8	8	7	9	7	3	4	12	3	4	7	3	8	7	4	10	9	208
June	23	15	12	12	13	9	16	11	9	9	12	6	8	4	10	6	6	11	6	2	3	3	6	4	216

July	20	16	14	9	13	11	10	6	3	7	12	10	8	7	12	6	10	9	5	9	9	2	6	8	222
August	16	13	17	6	12	18	13	12	6	5	9	6	5	7	6	5	7	7	6	7	6	2	7	3	201
September	17	13	15	14	11	10	8	10	6	4	8	3		2	6	6	8	5	7	5	2	9	3	1	173
October	12	22	18	15	16	13	12	8	2	11	3	7	7	8	5	7	8	9	5	6	8	7	6	9	224
November	14	17	13	14	11	11	10	7	8	7	6	8	8	4	4	5	5	8	8		5	3	3	7	186
December	14	19	14	14	10	6	16	3	6	8	7	6	5	9	4	4	7	2	3	6	7	5	4	5	184
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

Prefecture of fatal and non-fatal accidents in dyeing 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
Aomori																									
Iwate	1																1	1		1					4
Miyagi					1																				1
Akita		1					1															1			3
Yamagata	2	3	2				1	2		1			1		1			1			1		1		16
Fukushima	1		1				2		1	2				1			1							1	10
Ibaraki		1					1	1												1					4
Tochigi	5	6	4		2		2			3	1	1	2		1		1	3		1	2	2	2	1	39
Gunma	2	7	6		5		1	1		1	1	2	1	4	1	2	6	1	1	1	1				44

Saitama	1	5	1		3		4	1	1	1	4	3		3	5	1		5	2	2		1	1	3	47
Chiba																									
Tokyo		2	4		2		3	3	1		1	1			1	3				1	2			2	26
Kanagawa	2	1	1		1		1		1	1	2								1						11
Niigata	4	9	7		5		6	2	6	3	4	5	2	3	2	5	5	7	2	5	2	6	3	1	94
Toyama	1	2	3		1		3	1			2		1			2		1	1		3	1	1	2	25
Ishikawa	3	7	6		6		5	11	3	4	5	8	4	7	4	7	8	2	7	6	5	8	3	7	126
Fukui	19	15	15		10		18	16	9	11	11	15	13	12	8	4	13	9	14	4	15	7	11	8	257
Yamanashi		2	2					2	2		1													1	10
Nagano																									
Gifu	6	6	4		5		4	4	4	5	6	3	3	2	3	3	1	4	5	3	3	4	4	3	85
Shizuoka	17	7	8		6		5	3	5	3	1	4	2	1	4	1	4	2	2	6	2	2	3	4	92
Aichi	32	27	22		22		28	15	15	18	14	14	7	9	18	8	13	8	6	16	8	11	15	7	333
Mie	1	1	1		1			1			1										1				7
Shiga	6	3	5		3		1	4	1	1		2	1	1	2			1	2	3	3	1			40
Kyoto	26	18	25		17		23	17	8	17	17	6	6	10	9	8	13	7	18	3	14	4	5	7	278
Osaka	20	25	26		18		10	11	10	11	14	5	7	11	6	5	4	12	6	2	6	2	4	5	220
Hyogo	10	9	6		2		3	2	1		3	1	4	2	1	1	1		4	3		1	2	2	58
Nara	5	4	6		3		1	1	1	1	1		1	4	6			1	3	2	4	2	3		49
Wakayama	11	11	10		6		6	2	2	4	5	4	5	1	4	4	5	5	6	1	3		1	2	98
Tottori							1			1				2											4

Shimane																									
Okayama	4	5	4		5		4	4		6	2	1	2	1	1	2	5	2	2			1	1	3	55
Hiroshima	7	3	4		1		2	3	4	4			3	1		2	1	1	4		2	1	2		45
Yamaguchi																									
Tokushima	1		1				1			1		1													5
Kagawa	1							1		1			1			1								1	6
Ehime	8	12	8		9		3	6	3	2	2	3	1	1	2	2	4	6	4	1	3	2	1	6	89
Kochi																									
Fukuoka	3	1	2												2			1				1			10
Saga																									
Nagasaki														1											1
Kumamoto								1									1								2
Oita					2											2						1			5
Miyazaki																									
Kagoshima																									
Okinawa																									
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	66	2,475

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 dyeing in Japan in 1999-2022

dyeing industry Code No.010204

Type of fatal accidents in dyeing 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		1		1											1			1							4
falling to same level																		1							1
crash																									
struck by flying or falling object																									
collapse																									
crashed by																									
caught in/between		1				2					2								1		1		1		8
cut																									
injury to the sole of the foot																									

drown																									
contact to high/low-temperature																									
contact to harmful substance																									
electric shock																									
explosion																									
burst																									
fire				1																					1
traffic accident (public road)																									
traffic accident (others)																									
reaction to motion/improper motion																									
others						1																			1
unclassifiable																									
total		2		2		3					2				1			2	1		1		1		15

Causal agents (large) of fatal accidents in dyeing 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								1		1		1		7
crane, conveying machine		1				1									1										3
other equipment																		1							1
temporary buildings, establishments				1														1							2
substance, material				1		1																			2
load																									
environment																									
others																									
total		2		2		3					2				1			2	1		1		1		15

Causal agents (middle) of fatal accidents in dyeing 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						1																			1

woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine		1									2								1		1		1		6
mobile silviculture machine																									
crane															1										1
conveying machine						1																			1
vehicle		1																							1
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																		1							1
other equipments,																									

facilities																									
temporary buildings, establishments				1														1							2
hazards, harmful substances																									
materials				1		1																			2
load																									
natural environment																									
other causal agent																									
no causal agent																									
unclassifiable																									
total		2		2		3					2				1			2	1		1		1		15

Causal agents (small) of fatal accidents in dyeing 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						1																			1

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																									
roll machine (except printingroll machine)																			1				1		2

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines		1									2										1				4
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift															1										1
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift																									
railway equipment																									
conveyor						1																			1
loader																									
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																									
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																		1							1
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																		1							1
building, establishment				1																					1
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									
other materials				1		1																			2
load																									
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																									
total		2		2		3					2				1			2	1		1		1		15

Workers age of fatal accidents in dyeing 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
30-39																							1		1
40-49											1														1
50-59		2		2		1					1							1	1						8
60 years old or more						1									1			1			1				4
total		2		2		3					2				1			2	1		1		1		15

Workers' number of workplace of fatal accidents in dyeing 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				1		1																			2
10-29											1							1							2
30-49															1				1				1		3
50-99				1		1												1							3
100-299		1				1																			2
300 workers or more		1									1										1				3
total		2		2		3					2				1			2	1		1		1		15

Month of fatal accidents in dyeing 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				2
February		1									2														3
March				1																			1		2
April						2												1							3
May						1												1							2
June																									

July																									
August		1																							1
September															1										1
October																									
November				1																					1
December																									
total		2		2		3					2				1			2	1		1		1		15

Prefecture of fatal accidents in dyeing 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																									
Aomori																									
Iwate																									
Miyagi																									
Akita																									
Yamagata																									
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																									

Saitama																									
Chiba																									
Tokyo																									
Kanagawa																									
Niigata																									
Toyama																									
Ishikawa											1														1
Fukui		2													1			1			1				5
Yamanashi				1																					1
Nagano																									
Gifu																									
Shizuoka						1																			1
Aichi											1												1		2
Mie																									
Shiga																									
Kyoto																			1						1
Osaka						1												1							2
Hyogo																									
Nara																									
Wakayama						1																			1
Tottori																									

Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																									
Ehime				1																					1
Kochi																									
Fukuoka																									
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total		2		2		3					2				1			2	1		1		1		15

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

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