

## code no.519 other hazards, harmful substances as Causal (S) agents

## Fatal &amp; non-fatal accidents caused by other hazards, harmful substances as Causal (S) agents in 1999-2020

Industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
010101 meat/dairy products			6		7		6	12	3	7	5	9	10	7	9	10	7	10	5	5	4	5
010102 fishery products			5		9		3	2	5	4	5	3	8	6	6	9	9	5	5	5	4	6
010103 agricultural food products			4		5		6	2	3	1	5	1	2	2	3	3	3	4	7	3	3	3
010104 bread/cake products			8		11		5	2	11	3	14	6	3	8	6	12	10	13	10	8	9	8
010105 alcoholic drinks			4		0		2	1	2	0	2	2	0	0	1	2	0	1	2	1	4	1
010106 soft drinks			1		1		1	1	2	1	1	1	1	1	2	1	1	2	2	2	0	3
010109 other foods			47		42		36	43	27	34	43	37	40	39	50	51	33	42	33	23	33	40
0101 food products			75		75		59	63	53	50	75	59	64	63	77	88	63	77	64	47	57	66
010201 silk-reeling			0		0		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
010202 cotton-spinning			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010203 weaving			1		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010204 dyeing			2		0		3	1	2	4	4	2	3	2	4	1	1	2	1	1	2	4
010209 other textile products			2		2		1	0	1	0	0	0	0	0	0	1	2	0	0	1	0	0
0102 textile products			5		2		5	1	3	4	4	2	3	2	4	2	3	3	1	2	2	4
010301 over/under wear			0		0		1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0



010702 bookbinding			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
010709 other printing and bookbinding			0		0		0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
0107 printing/bookbinding			4		2		1	0	0	0	1	1	1	1	1	0	1	0	1	0	0	6
010801 non organic or organic chemical products			16		10		13	14	14	9	7	9	6	4	11	2	11	9	9	9	10	13
010802 chemical fiber			0		1		1	0	0	1	0	1	1	0	0	2	1	0	1	0	0	0
010803 pharmaceuticals			4		4		2	2	2	4	2	3	2	2	2	2	2	2	3	3	7	0
010804 petroleum/coal products			6		2		2	2	2	1	0	1	0	3	0	1	1	0	1	3	3	0
010805 plastics products			5		0		2	2	3	4	2	2	4	2	2	1	0	1	8	6	1	2
010806 rubber products			3		3		0	1	2	3	0	0	0	0	2	2	1	1	1	1	1	2
010807 leather products			0		1		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
010808 painting products			0		1		1	2	2	1	2	1	1	2	1	0	1	2	1	0	2	1
010809 chemical fertilizer products			2		0		0	0	2	0	0	3	1	0	1	2	1	2	0	2	0	1
010899 other chemical products			8		6		3	6	9	4	4	3	5	4	4	4	3	5	10	7	5	7
0108 chemical products			44		28		24	30	36	27	17	23	20	17	24	16	21	22	34	31	29	26
010901 cement products			1		2		1	2	1	5	0	2	4	1	0	1	0	1	0	4	3	3
010902 glass products			5		0		0	0	0	0	1	0	0	0	0	3	1	1	0	0	1	1

010903 pottery products			1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
010904 fire resisting products			1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
010905 other ceramic products			0	3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
010909 other sand and stone products			1	2	1	1	3	1	1	0	1	0	2	0	2	0	2	4	1	1	
0109 sand and stone products			9	7	2	5	5	7	3	2	5	1	2	4	3	3	2	8	6	6	
011001 steel/iron/rolling products			4	3	1	1	0	1	1	1	0	1	2	0	1	1	1	8	2	1	
011002 casting products			4	6	2	4	4	2	1	1	3	2	3	2	3	2	6	5	1	1	
011009 other steel products			1	1	1	1	1	1	0	0	0	3	0	1	0	1	0	1	1	0	
0110 steel making			9	10	4	6	5	4	2	2	3	6	5	3	4	4	7	14	4	2	
011101 nonferrous metals/rolling products			0	1	1	2	3	1	1	1	1	2	1	0	2	3	1	3	3	2	
011102 nonferrous metals casting products			3	2	0	3	3	1	0	0	2	1	0	0	0	2	3	1	1	2	
011109 other nonferrous metal products			1	3	3	2	0	2	2	2	4	4	1	1	2	0	0	1	0	0	
0111 nonferrous metal			4	6	4	7	6	4	3	3	7	7	2	1	4	5	4	5	4	4	

making																						
011201 western tableware/cutting tool products			0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1
011202 screw products			0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
011203 metal press products			1	2	0	0	0	0	0	0	1	1	0	0	1	1	2	1	2	0		
011204 metal plating products			11	11	5	8	9	6	5	8	6	6	10	6	3	4	6	5	5	7		
011209 other metal products			16	11	10	7	11	11	1	8	7	9	13	8	12	10	8	5	15	7		
0112 metal products			28	25	16	17	21	19	7	16	14	16	23	14	16	15	16	11	22	15		
011301 machine products			6	4	2	10	7	6	1	4	3	5	5	8	4	3	2	6	3	4		
011302 measuring instruments			0	0	0	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0		
011303 optical instruments			0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	1	0		
011304 watch products			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
011305 other precision machine products			1	1	2	2	0	1	0	1	0	0	3	0	0	1	0	0	0	1		
0113 machine products			7	5	4	12	8	8	1	5	4	5	8	8	7	4	3	7	5	5		
011401 heavy electrical equipment			1	0	0	0	1	0	0	0	0	0	0	1	1	0	3	0	0	0		
011402 electrical appliance			3	0	1	2	0	0	2	0	0	1	1	0	0	1	0	0	1	1		





02 mining			1		0		0	0	0	1	0	0	0	0	0	1	0	3	1	2	1	0
030101 hydroelectric plant construction work			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
030102 tunnel construction work			3		0		1	1	2	1	1	2	0	0	0	0	0	0	0	0	2	2
030103 subway construction work			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030104 railway construction work			0		0		1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0
030105 bridge construction work			1		0		1	0	3	0	1	1	0	0	0	0	0	1	2	1	11	2
030106 road construction work			6		3		1	0	2	1	3	0	2	3	2	1	1	2	3	2	4	1
030107 river civil engineering work			0		0		0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0
030108 sand collapse prevention civil engineering work			1		0		0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
030109 land consolidation civil engineering work			0		1		1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
030110 water supply/sewage			3		0		3	0	0	1	1	0	1	2	2	0	0	1	0	0	2	1





030309 other construction works			3	10	7	7	6	7	3	2	2	4	6	5	7	9	8	5	6	9	
0303 other construction works			11	14	8	10	8	10	7	5	7	9	6	9	15	13	10	8	13	13	
03 construction			56	38	38	29	41	37	29	19	29	27	28	31	30	41	34	34	50	51	
040101 railroad service			0	0	1	1	0	0	2	0	2	0	0	1	2	1	2	0	0	0	
040102 water transportation service			0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	
040103 airline service			0	0	1	1	4	2	0	0	1	0	0	0	0	0	0	3	1	0	0
0401 railroad/water transportation/airline service			0	0	2	2	4	2	2	0	3	1	1	1	2	1	5	1	0	0	
040201 taxi service			1	2	0	7	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1
040202 bus service			2	2	2	2	4	1	3	0	2	2	2	0	1	0	2	0	1	2	
040209 other passenger transport service			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0402 road passenger transport service			4	4	2	9	5	1	3	1	2	2	2	0	1	0	2	0	2	3	
040301 general truck transportation service			10	6	10	12	6	19	7	8	7	8	13	11	6	9	11	4	10	17	
040302 specific truck transportation service			0	1	0	0	0	1	0	0	0	0	0	1	0	0	2	1	0	0	

040303 cargo/ light automobile transportation service			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
040309 other land cargo transportation service			3	0	4	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0
0403 road cargo transportation service			13	7	14	13	7	21	8	8	7	8	13	12	6	10	13	5	10	17	
040409 other transportation service			0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
0404 other transportation service			0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
04 transportation service			17	11	19	24	16	24	13	9	12	11	16	13	10	11	20	6	12	20	
050101 land cargo handling service			1	0	1	0	0	1	0	0	1	2	1	3	1	0	0	1	1	1	
0501 land cargo handling service			1	0	1	0	0	1	0	0	1	2	1	3	1	0	0	1	1	1	
050201 general harbor transportation service			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
050202 port cargo handling service			0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0
050209 other harbor			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	

transportation service																						
0502 port cargo transportation service			0	0	2	0	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	
05 cargo handling service			1	0	3	0	1	2	0	0	1	2	1	4	2	1	0	1	1	1		
060101 agriculture			1	2	0	3	0	1	0	1	1	2	1	0	1	0	3	3	2	2		
0601 agriculture			1	2	0	3	0	1	0	1	1	2	1	0	1	0	3	3	2	2		
060201 lumbering			0	1	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0		
060209 other forestry			0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0		
0602 forestry			0	2	2	0	1	0	0	1	1	1	0	0	0	0	0	0	1	0		
06 agriculture			1	4	2	3	1	1	0	2	2	3	1	0	1	0	3	3	3	2		
070101 livestock			1	2	4	1	1	3	7	8	4	8	3	5	0	6	5	3	2	12		
0701 livestock			1	2	4	1	1	3	7	8	4	8	3	5	0	6	5	3	2	12		
070201 fishery			0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1		
070209 other fishery			0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0		
0702 fishery			0	2	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	1		
07 livestock/fishery			1	4	4	1	1	3	8	8	4	8	3	6	0	7	6	3	2	13		
080101 all kinds of wholesale			0	1	1	3	0	0	0	0	0	0	0	2	1	2	0	0	0	0		
080102 furniture/fittings wholesale			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
080109 other wholesale			5	5	8	4	2	3	3	6	1	5	6	8	5	7	1	5	4	4		





service			0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
11 telecommunication service			0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
120101 auto mobile practical training			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120102 software service			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
120109 other education/research service			4	9	8	6	4	4	1	0	7	5	3	4	4	2	4	3	2	3		
1201 education/research service			4	9	9	6	4	4	1	0	7	5	3	4	5	2	4	3	2	3		
12 education/research service			4	9	9	6	4	4	1	0	7	5	3	4	5	2	4	3	2	3		
130101 hospital			5	10	5	8	2	10	4	5	8	4	5	5	5	4	8	5	4	4		
130102 general clinic			1	1	2	0	0	2	2	1	0	1	2	0	3	0	0	1	1	1		
130109 other medical treatment service			1	0	1	0	0	0	2	0	1	1	0	2	0	3	2	1	2	0		
1301 medical treatment service			7	11	8	8	2	12	8	6	9	6	7	7	8	7	10	7	7	5		
130201 social welfare facility			6	13	8	11	15	8	18	6	15	9	14	8	15	15	17	15	9	15		
1302 social welfare facility			6	13	8	11	15	8	18	6	15	9	14	8	15	15	17	15	9	15		
130301 bathhouse			0	1	1	2	2	2	0	0	0	0	1	1	0	0	1	0	0	0		
130309 other health and			0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0		

hygiene service																						
1303 other health and hygiene service			0	1		1	2	2	3	1	0	0	0	2	1	0	0	1	1	0	0	
13 health and hygiene service			13	25		17	21	19	23	27	12	24	15	23	16	23	22	28	23	16	20	
140101 hotel			17	12		12	13	10	10	10	12	7	7	11	7	9	10	10	5	11	2	
1401 hotel			17	12		12	13	10	10	10	12	7	7	11	7	9	10	10	5	11	2	
140201 general restaurant			82	107		108	75	91	66	77	67	112	93	75	104	88	106	97	80	106	72	
140209 other restaurants			13	9		14	9	8	4	12	7	6	9	6	12	8	8	6	8	10	1	
1402 restaurant			95	116		122	84	99	70	89	74	118	102	81	116	96	114	103	88	116	73	
140301 golf course			0	0		2	1	0	0	2	0	0	4	1	1	6	3	2	4	0	0	
140302 park and amusement park			0	1		0	2	3	1	0	0	0	0	1	0	0	0	1	0	1	0	
140309 other amusement service			7	3		6	5	1	5	3	4	1	5	5	5	4	1	4	5	6	1	
1403 other amusement service			7	4		8	8	4	6	5	4	1	9	7	6	10	4	7	9	7	1	
14 amusement service			119	132		142	105	113	86	104	90	126	118	99	129	115	128	120	102	134	76	
150101 building maintenance service			14	13		22	9	14	15	14	7	14	14	13	15	13	10	12	8	21	19	
150102 industrial waste management service			3	6		5	10	3	9	8	7	4	1	3	11	4	5	7	9	3	3	



150103 other waste disposal service			4	5		2	0	2	2	1	6	1	4	1	1	3	1	2	3	1	4
150104 cremation service			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150105 livestock process service			1	0		1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	0
150109 other cleaning and livestock process service			4	7		6	4	3	1	1	5	4	3	2	4	4	6	4	5	2	2
1501 commercial cleaning			26	31		36	23	22	27	25	25	23	22	19	31	25	23	25	26	28	28
15 commercial cleaning			26	31		36	23	22	27	25	25	23	22	19	31	25	23	25	26	28	28
160101 public office			1	1		0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0
1601 public office			1	1		0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0
16 public office			1	1		0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0
170101 dispatch service			0	1		0	1	0	2	1	0	0	1	1	1	1	1	0	1	0	2
1701 dispatch service			0	1		0	1	0	2	1	0	0	1	1	1	1	1	0	1	0	2
170201 security service			1	0		0	2	0	2	0	1	0	0	0	0	1	1	0	0	1	1
170202 information processing service			0	0		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170209 others			15	12		15	8	14	8	7	8	10	8	7	8	8	10	11	11	11	10
1702 others			16	12		17	10	14	10	7	9	10	8	7	8	9	11	11	11	12	11
17 others			16	13		17	11	14	12	8	9	10	9	8	9	10	12	11	12	12	13





010702 bookbinding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010709 other printing and bookbinding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0107 printing/bookbinding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010801 non organic or organic chemical products	0	4	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
010802 chemical fiber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010803 pharmaceuticals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010804 petroleum/coal products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
010805 plastics products	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010806 rubber products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010807 leather products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010808 painting products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010809 chemical fertilizer products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010899 other chemical products	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	1	1	1	0
0108 chemical products	0	4	1	0	1	0	0	1	2	0	0	0	0	1	0	0	0	0	1	1	2	0	0
010901 cement products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010902 glass products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0



















transportation service																							
0502 port cargo transportation service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05 cargo handling service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
060101 agriculture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0601 agriculture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
060201 lumbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
060209 other forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0602 forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06 agriculture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
070101 livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0701 livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
070201 fishery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
070209 other fishery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0702 fishery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07 livestock/fishery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
080101 all kinds of wholesale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
080102 furniture/fitings wholesale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
080109 other wholesale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0











150103 other waste disposal service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
150104 cremation service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150105 livestock process service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150109 other cleaning and livestock process service	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1501 commercial cleaning	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
15 commercial cleaning	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
160101 public office	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1601 public office	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 public office	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170101 dispatch service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1701 dispatch service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170201 security service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170202 information processing service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170209 others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	
1702 others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	
17 others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	

total	5	6	3	2	2	3	0	2	4	3	1	0	3	2	1	2	3	1	2	3	5	2
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Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

Return to <https://www.jisha.or.jp/english/statistics/2020eCSA.html>