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

other chemical products industry Code No.010899

Type of accidents in other chemical 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 | 55 | 40 | 51 | 44 | 47 | 48 | 42 | 40 | 42 | 43 | 32 | 45 | 31 | 31 | 36 | 42 | 30 | 26 | 52 | 47 | 36 | 47 | 34 | 48 | 989 |
| 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 | 74 | 1,294 |
| crash | 18 | 17 | 13 | 13 | 12 | 8 | 19 | 10 | 17 | 8 | 10 | 11 | 11 | 11 | 14 | 9 | 9 | 10 | 16 | 15 | 14 | 13 | 22 | 16 | 316 |
| 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 | 16 | 397 |
| collapse | 9 | 11 | 3 | 1 | 4 | 8 | 8 | 8 | 6 | 5 | 2 | 2 | 4 |  | 5 | 6 | 2 | 3 | 3 | 4 | 4 | 5 | 4 | 2 | 109 |
| 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 | 8 | 265 |
| 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 | 53 | 2,075 |
| cut | 32 | 34 | 29 | 23 | 40 | 21 | 30 | 20 | 23 | 17 | 16 | 15 | 16 | 14 | 17 | 17 | 17 | 8 | 18 | 15 | 9 | 10 | 12 | 15 | 468 |
| injury to the sole of the foot | 2 |  | 2 | 2 |  |  | 1 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  | 2 | 11 |
| drown |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |
| contact to high/low- | 23 | 25 | 11 | 9 | 17 | 14 | 16 | 9 | 10 | 16 | 9 | 13 | 14 | 6 | 13 | 13 | 4 | 10 | 12 | 11 | 16 | 16 | 9 | 12 | 308 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| temperature | | | | | | | | | | | | | | | | | | | | | | | | | |
| contact to harmful substance | 7 | 13 | 14 | 13 | 12 | 18 | 15 | 15 | 10 | 7 | 11 | 10 | 11 | 6 | 6 | 12 | 9 | 7 | 9 | 11 | 11 | 16 | 11 | 10 | 264 |
| electric shock | | | 1 | 1 | 1 | | | 1 | | | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | 12 |
| explosion | 4 | 3 | 2 | 8 | 2 | 5 | 4 | 4 | 11 | | 1 | 5 | 6 | 5 | 2 | 2 | 2 | 1 | 5 | 5 | 3 | 1 | 2 | 1 | 84 |
| burst | 2 | | 1 | | 4 | | | 1 | 2 | 1 | 1 | | | | | 1 | | 1 | 2 | | 1 | | | | 17 |
| fire | 4 | 3 | 4 | | 1 | 1 | | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | | | | | 1 | 1 | 3 | 1 | | 32 |
| traffic accident (public road) | 5 | 5 | 2 | 2 | 5 | 4 | 4 | 3 | 1 | 4 | 7 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | | 6 | 3 | 1 | 2 | 3 | 74 |
| traffic accident (others) | 1 | 1 | 1 | | | | | | 1 | | 1 | | | | | | | | 1 | | | 1 | | | 7 |
| reaction to motion/improper motion | 36 | 43 | 36 | 34 | 27 | 32 | 29 | 40 | 47 | 40 | 30 | 40 | 25 | 30 | 33 | 28 | 27 | 41 | 31 | 45 | 51 | 59 | 63 | 57 | 924 |
| others | 4 | 2 | 2 | | 1 | 3 | 3 | | 8 | | 3 | | | 1 | 1 | 2 | | 3 | 1 | 1 | 3 | 3 | 62 | 7 | 110 |
| unclassifiable | 1 | 2 | 2 | | 2 | | 1 | | | 1 | | 1 | | 1 | 2 | 2 | 1 | | | 1 | 1 | 1 | | | 19 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Causal agents (large) of fatal and non-fatal accidents in other chemical 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 | 153 | 126 | 111 | 97 | 114 | 97 | 101 | 99 | 84 | 74 | 80 | 58 | 76 | 66 | 51 | 51 | 72 | 54 | 63 | 54 | 52 | 48 | 59 | 53 | 1,893 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| crane, conveying machine | 58 | 55 | 64 | 33 | 41 | 38 | 31 | 42 | 38 | 37 | 37 | 35 | 36 | 29 | 26 | 34 | 30 | 28 | 41 | 41 | 34 | 36 | 33 | 30 | 907 |
| other equipment | 79 | 65 | 63 | 63 | 53 | 49 | 72 | 51 | 56 | 46 | 43 | 72 | 53 | 50 | 52 | 54 | 59 | 58 | 67 | 65 | 68 | 75 | 66 | 67 | 1,446 |
| temporary buildings, establishments | 71 | 63 | 66 | 52 | 56 | 59 | 66 | 63 | 53 | 70 | 55 | 52 | 45 | 50 | 42 | 47 | 50 | 56 | 68 | 71 | 59 | 74 | 70 | 78 | 1,436 |
| substance, material | 52 | 56 | 32 | 39 | 34 | 44 | 33 | 39 | 48 | 28 | 32 | 28 | 34 | 25 | 26 | 36 | 19 | 20 | 28 | 28 | 27 | 37 | 23 | 33 | 801 |
| load | 28 | 38 | 30 | 33 | 29 | 29 | 26 | 29 | 26 | 22 | 22 | 22 | 25 | 27 | 26 | 27 | 17 | 19 | 27 | 31 | 29 | 27 | 44 | 26 | 659 |
| environment | 6 | 7 | 5 | 4 | 6 | 4 | 3 | 4 | 3 | 10 | 1 | 6 | 2 | 5 | 4 | 4 | 2 | 7 | 3 | 7 | 10 | 11 | 5 | 8 | 127 |
| others | 20 | 24 | 22 | 15 | 18 | 20 | 19 | 19 | 29 | 17 | 12 | 16 | 11 | 7 | 13 | 12 | 10 | 17 | 14 | 20 | 29 | 30 | 84 | 29 | 507 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Causal agents (middle) of fatal and non-fatal accidents in other chemical 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 | | | 1 | | | | | 1 | 1 | | | | | | | | 1 | | 7 |
| power transmission mechanism | 6 | 7 | 7 | 4 | 2 | 5 | 5 | 4 | 3 | 2 | 5 | 3 | 2 | 3 | 4 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 79 |
| woodworking machine | 8 | 3 | 3 | 1 | 5 | 2 | 6 | 3 | 3 | 1 | 2 | 1 | | | 1 | 3 | | | 1 | 1 | 1 | | 1 | 2 | 48 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| construction machine | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | | 2 | 2 | | 1 | 1 | | 2 | | 1 | | | 1 | 27 |
| metal manufacturing machine | 18 | 18 | 10 | 9 | 10 | 6 | 10 | 4 | 6 | 6 | 7 | 1 | 6 | 3 | 2 | 2 | 5 | 4 | 8 | 6 | 5 | 3 | 5 | 5 | 159 |
| general machine | 119 | 96 | 89 | 82 | 96 | 82 | 77 | 86 | 70 | 63 | 64 | 53 | 66 | 57 | 43 | 44 | 63 | 48 | 50 | 45 | 43 | 44 | 49 | 44 | 1,573 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | 5 | 5 | 3 | 3 | 1 | 1 | 1 | 3 | | 3 | 5 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | | 51 |
| conveying machine | 48 | 43 | 58 | 26 | 35 | 32 | 26 | 36 | 36 | 30 | 27 | 31 | 32 | 23 | 23 | 31 | 28 | 20 | 39 | 30 | 30 | 32 | 28 | 26 | 770 |
| vehicle | 5 | 7 | 3 | 4 | 5 | 5 | 4 | 3 | 2 | 4 | 5 | 2 | 1 | 4 | 1 | 1 | 1 | 7 | 1 | 9 | 3 | 3 | 2 | 4 | 86 |
| pressure vessel | 1 | 3 | 1 | 4 | | 1 | 1 | | 1 | 1 | 1 | 3 | | 1 | 2 | | 1 | | 3 | | 1 | | 1 | | 26 |
| chemical facilities | 5 | 3 | 2 | 2 | 4 | 5 | 3 | 2 | 3 | | | 2 | | 1 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 59 |
| welding equipment | | | | | | 1 | | | | | | 1 | | 1 | | | | | | 2 | | | | | 5 |
| kiln, caldron | 2 | 1 | 4 | 1 | | 1 | 1 | | | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | 2 | 1 | 28 |
| electric equipment | | | 3 | 1 | 1 | 1 | 1 | | 1 | | 3 | | | 1 | 4 | | 1 | 1 | | | 1 | | 1 | 1 | 21 |
| human power machine, tools | 20 | 15 | 21 | 16 | 17 | 12 | 18 | 12 | 18 | 7 | 6 | 10 | 12 | 15 | 11 | 12 | 9 | 15 | 15 | 14 | 22 | 18 | 17 | 14 | 346 |
| tools | 36 | 28 | 19 | 30 | 20 | 18 | 32 | 25 | 25 | 26 | 20 | 33 | 25 | 27 | 23 | 28 | 29 | 24 | 29 | 33 | 28 | 36 | 31 | 31 | 656 |
| other equipments, | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| facilities | 15 | 15 | 13 | 9 | 11 | 10 | 16 | 12 | 8 | 11 | 12 | 21 | 15 | 4 | 9 | 10 | 15 | 14 | 17 | 12 | 12 | 16 | 11 | 17 | 305 |
| temporary buildings, establishments | 71 | 63 | 66 | 52 | 56 | 59 | 66 | 63 | 53 | 70 | 55 | 52 | 45 | 50 | 42 | 47 | 50 | 56 | 68 | 71 | 59 | 74 | 70 | 78 | 1,436 |
| hazards, harmful substances | 25 | 23 | 24 | 22 | 19 | 29 | 17 | 21 | 28 | 11 | 17 | 15 | 18 | 14 | 13 | 18 | 9 | 10 | 18 | 17 | 15 | 22 | 12 | 13 | 430 |
| materials | 27 | 33 | 8 | 17 | 15 | 15 | 16 | 18 | 20 | 17 | 15 | 13 | 16 | 11 | 13 | 18 | 10 | 10 | 10 | 11 | 12 | 15 | 11 | 20 | 371 |
| load | 28 | 38 | 30 | 33 | 29 | 29 | 26 | 29 | 26 | 22 | 22 | 22 | 25 | 27 | 26 | 27 | 17 | 19 | 27 | 31 | 29 | 27 | 44 | 26 | 659 |
| natural environment | 6 | 7 | 5 | 4 | 6 | 4 | 3 | 4 | 3 | 10 | 1 | 6 | 2 | 5 | 4 | 4 | 2 | 7 | 3 | 7 | 10 | 11 | 5 | 8 | 127 |
| other causal agent | 8 | 6 | 7 | 2 | 6 | 6 | 5 | 2 | 11 | 6 | 5 | 4 | 1 | | 4 | 2 | 4 | 6 | 5 | 5 | 7 | 2 | 63 | 6 | 173 |
| no causal agent | 9 | 15 | 12 | 13 | 12 | 13 | 13 | 17 | 15 | 10 | 7 | 12 | 10 | 6 | 8 | 8 | 5 | 10 | 9 | 14 | 22 | 28 | 21 | 23 | 312 |
| unclassifiable | 3 | 3 | 3 | | | 1 | 1 | | 3 | 1 | | | | 1 | 1 | 2 | 1 | 1 | | 1 | | | | | 22 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Causal agents (small) of fatal and non-fatal accidents in other chemical 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 | 1 | | | | | | | | 1 | | 5 |
| power transmission mechanism | | | 7 | | 2 | | 5 | 4 | 3 | 2 | 5 | 3 | 2 | 3 | 4 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 57 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| circular sawing machine | | | 2 | | 3 | | 4 | 2 | 2 | 1 | 1 | 1 | | | | 3 | | | 1 | 1 | 1 | | 1 | 2 | 25 |
| band sawing machine | | | 1 | | | | 1 | 1 | | | 1 | | | | 1 | | | | | | | | | | 5 |
| 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 | | | | | | | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | | 2 | | 1 | | | | 9 |
| excavating machine | | | 1 | | 1 | | | 1 | 1 | 1 | | | 1 | | | | | | | | | | | | 6 |
| foundation work machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| hardening machine | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| demolition machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| vehicle for high lift work | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 2 |
| other construction machines | | | | | | | 2 | 1 | | | 1 | | | | | 1 | | | | | | | | | 5 |
| lathe | | | | | 2 | | 1 | 2 | | 1 | 1 | | 1 | | | | 2 | | 3 | | 1 | | 1 | 1 | 16 |
| drill press, milling machine | | | 1 | | 1 | | | 1 | 1 | | | | | | | | | | | 1 | 1 | | | 1 | 7 |
| grinding machine, buffing machine | | | 1 | | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | | | 1 | 1 | | | | | 1 | 10 |
| power press | | | | | 3 | | 2 | | | 2 | 4 | 1 | | 2 | 1 | 1 | | 3 | 1 | 3 | 2 | | 2 | 1 | 28 |
| forging pressure hammer | | | | | | | | | | | | | | | | | | | | | | | | | |
| shearing machine | | | 1 | | 2 | | 1 | | 2 | | | | 1 | | | 1 | 1 | | 1 | 1 | 1 | | | | 12 |
| other metal manufacturing machines | | | 7 | | 1 | | 5 | 1 | 2 | 2 | 2 | | 3 | 1 | | | 2 | | 2 | 1 | | 3 | 2 | 1 | 35 |
| centrifugal machine | | | | | | | | | 1 | | | | | | | | | 1 | | 4 | | | | 1 | 7 |
| mixer, grinder | | | 5 | | 18 | | 5 | 13 | 6 | 7 | 7 | 3 | 6 | 10 | 3 | 6 | 8 | 5 | 8 | 4 | 9 | 5 | 8 | 3 | 139 |
| roll machine (except printingroll machine) | | | 14 | | 15 | | 17 | 11 | 9 | 8 | 8 | 5 | 14 | 11 | 6 | 6 | 11 | 10 | 2 | 3 | 6 | 11 | 4 | 8 | 179 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| injection molding machine | | | 1 | | 2 | | 3 | 2 | 6 | 3 | 3 | 4 | 1 | 2 | 2 | | | 2 | 2 | 1 | | 1 | 2 | | 37 |
| food manufacturing machine | | | | | 1 | | | | | | | | | | 1 | | 1 | 1 | | 1 | | 1 | | | 6 |
| printing machine | | | 3 | | 1 | | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 2 | | 1 | 1 | 3 | 30 |
| industrial robot | | | | | | | | | | | | | 1 | | | | | | | | | 1 | 1 | | 3 |
| other general power machines | | | 66 | | 59 | | 50 | 59 | 47 | 43 | 45 | 39 | 43 | 33 | 30 | 31 | 41 | 26 | 37 | 30 | 28 | 24 | 33 | 29 | 793 |
| felling machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mobile logging machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| skyline yarding machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | | | 1 | | 1 | | | 2 | | 1 | 2 | 2 | 3 | | 2 | | 1 | 1 | | 1 | 1 | | 3 | | 21 |
| mobile crane | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | | 2 |
| derrick crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| elevator, lift | | | 2 | | | | | | | 1 | 1 | | | | | 1 | | | 1 | 1 | | 1 | | | 8 |
| cargo lifting appliance | | | | | | | | | | | | | | | | | | | | | | | | | |
| gondola | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| lumberyard equipment, logging cableway | | | | | | | | | | | | | | | | | | | | | | | | | |
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered crane | | | | | | | | 1 | | 1 | 1 | | | 2 | | 1 | | | | | | | | | 6 |
| truck | | | 11 | | 6 | | 5 | 10 | 9 | 2 | 7 | 6 | 5 | 5 | 5 | 7 | 3 | 3 | 7 | 4 | 12 | 10 | 5 | 7 | 129 |
| forklift | | | 22 | | 17 | | 12 | 15 | 13 | 14 | 13 | 16 | 12 | 12 | 14 | 12 | 11 | 8 | 19 | 16 | 10 | 11 | 16 | 11 | 274 |
| railway equipment | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| conveyor | | | 22 | | 10 | | 9 | 11 | 12 | 11 | 4 | 7 | 15 | 4 | 3 | 10 | 10 | 9 | 10 | 9 | 7 | 8 | 6 | 7 | 184 |
| loader | | | | | | | | | | 1 | 1 | | | 1 | | | | | | | | | | | 3 |
| straddle carrier | | | | | | | | | | | | | | | | | | | | | | | | | |
| rough terrain hauler | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered conveying machines | | | 3 | | 2 | | | | 2 | 1 | 2 | 2 | | 1 | 1 | 2 | 4 | | 3 | 1 | 1 | 3 | 1 | 1 | 30 |
| cars, bus, motorcycle | | | 3 | | 5 | | 4 | 3 | 2 | 4 | 5 | 2 | 1 | 3 | 1 | 1 | 1 | 7 | 1 | 8 | 3 | 3 | 2 | 4 | 63 |
| railway vehicle | | | | | | | | | | | | | | | | | | | | | | | | | |
| other vehicles | | | | | | | | | | | | | | 1 | | | | | | 1 | | | | | 2 |
| boiler | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| pressure vessel | | | 1 | | | | 1 | | | | | 3 | | 1 | 1 | | | | 2 | | | | 1 | | 10 |
| other pressure vessels | | | | | | | | | | 1 | 1 | | | | | | 1 | | 1 | | 1 | | | | 5 |
| chemical facilities | | | 2 | | 4 | | 3 | 2 | 3 | | | 2 | | 1 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 44 |
| gas welding equipment | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 |
| arc welding equipment | | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | 2 |
| other welding equipment | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| kiln, caldron | | | 4 | | | | | | | 1 | | 1 | 1 | | 1 | 1 | | 2 | | 1 | 1 | 1 | 1 | | 15 |
| industrial dryer | | | | | | | 1 | | | | 1 | 1 | | | | | 1 | | | | 1 | 1 | | | 6 |
| other kiln, caldron | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 |
| transmission | | | 1 | | | | | | 1 | | 3 | | | | 3 | | | 1 | | | | | | 1 | 10 |
| electric power facilities | | | 2 | | 1 | | | | | | | | | 1 | | | | | | | | | | | 4 |
| other electrical equipment | | | | | | | 1 | | | | | | | | 1 | | 1 | | | | 1 | | 1 | | 5 |
| human power cranes | | | | | | | | | | | | | | | | | | | 1 | | | 2 | 3 | 3 | 9 |
| human power hauling equipment | | | 9 | | 12 | | 6 | 3 | 10 | 2 | 3 | 5 | 8 | 8 | 6 | 7 | 5 | 11 | 9 | 9 | 19 | 9 | 9 | 6 | 156 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| human power machine | | | | | | | | | | | | | 1 | 1 | | | 1 | | 1 | 1 | | | | | 5 |
| hand tool | | | 12 | | 5 | | 12 | 9 | 8 | 5 | 3 | 5 | 3 | 6 | 5 | 5 | 3 | 4 | 4 | 4 | 3 | 7 | 5 | 5 | 113 |
| ladder | | | 10 | | 11 | | 15 | 12 | 10 | 13 | 7 | 15 | 14 | 12 | 12 | 16 | 13 | 11 | 12 | 19 | 12 | 16 | 10 | 15 | 255 |
| slinging tool | | | 2 | | 1 | | 2 | | | | | 2 | | 1 | | 1 | 2 | | 1 | 1 | | 1 | | | 14 |
| other tools | | | 7 | | 8 | | 15 | 13 | 15 | 13 | 13 | 16 | 11 | 14 | 11 | 11 | 14 | 13 | 16 | 13 | 16 | 19 | 21 | 16 | 275 |
| other equipment, facilities | | | 13 | | 11 | | 16 | 12 | 8 | 11 | 12 | 21 | 15 | 4 | 9 | 10 | 15 | 14 | 17 | 12 | 12 | 16 | 11 | 17 | 256 |
| scaffolding | | | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | | | | | | 1 | | | | | 9 |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | | |
| stairs, landing stage | | | 18 | | 7 | | 10 | 19 | 13 | 17 | 12 | 12 | 8 | 5 | 10 | 21 | 11 | 8 | 23 | 17 | 16 | 19 | 17 | 16 | 279 |
| opening | | | 1 | | | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | 1 | 1 | 1 | | 1 | 12 |
| roof, beam, haze, crossbeam, principal rafter | | | 1 | | 4 | | 2 | 1 | | 3 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 3 | | 1 | 22 |
| working platform, boot board | | | 11 | | 11 | | 10 | 10 | 8 | 10 | 15 | 9 | 11 | 6 | 5 | 5 | 10 | 6 | 7 | 7 | 6 | 9 | 7 | 11 | 174 |
| passage | | | 20 | | 13 | | 29 | 21 | 15 | 23 | 17 | 16 | 15 | 26 | 11 | 13 | 23 | 24 | 20 | 31 | 23 | 32 | 32 | 39 | 443 |
| building, establishment | | | 7 | | 9 | | 8 | 8 | 10 | 11 | 5 | 5 | 6 | 10 | 10 | 4 | 3 | 13 | 12 | 8 | 6 | 8 | 8 | 6 | 157 |
| other temporary buildings, | | | 7 | | 11 | | 5 | 3 | 5 | 5 | 4 | 7 | 3 | 1 | 5 | 3 | 2 | 5 | 5 | 5 | 7 | 2 | 6 | 4 | 95 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| establishments | | | | | | | | | | | | | | | | | | | | | | | | | |
| explosive substance | | | 2 | | 5 | | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | | 1 | | 3 | 1 | 1 | 2 | 3 | 34 |
| inflammable substance | | | 5 | | 1 | | 1 | 3 | 10 | 1 | 3 | 4 | 4 | 4 | 2 | 2 | | | 3 | 1 | 2 | 1 | 1 | | 48 |
| inflammable gas | | | | | | | | | | | | 2 | 1 | | | | 1 | | | 1 | | | | | 5 |
| harmful substance | | | 9 | | 7 | | 10 | 10 | 8 | 5 | 9 | 5 | 7 | 5 | 4 | 10 | 5 | 4 | 5 | 5 | 7 | 13 | 5 | 7 | 140 |
| radiation | | | | | | | | | | | | | | | | | | | | | | | | | |
| other hazards, harmful substances | | | 8 | | 6 | | 3 | 6 | 9 | 4 | 4 | 3 | 5 | 4 | 4 | 4 | 3 | 5 | 10 | 7 | 5 | 7 | 4 | 3 | 104 |
| metal material | | | 6 | | 6 | | 5 | 8 | 7 | 9 | 5 | 2 | 5 | 4 | 4 | 5 | | 5 | 5 | 2 | 5 | 5 | 3 | 8 | 99 |
| lumber, bamboo | | | | | 1 | | 1 | 2 | 2 | | 1 | 1 | 1 | | | 1 | 1 | | | 1 | | 1 | 2 | 2 | 17 |
| stone, sand, substance | | | | | | | 1 | | | 1 | | | 1 | 1 | 1 | | | | 1 | | 1 | | 1 | | 8 |
| other materials | | | 2 | | 8 | | 9 | 8 | 11 | 7 | 9 | 10 | 9 | 6 | 8 | 12 | 9 | 5 | 4 | 8 | 6 | 9 | 5 | 10 | 155 |
| load | | | 24 | | 26 | | 23 | 28 | 26 | 22 | 21 | 21 | 24 | 23 | 24 | 24 | 16 | 18 | 25 | 31 | 27 | 26 | 43 | 25 | 497 |
| machine/equipment as load | | | 6 | | 3 | | 3 | 1 | | | 1 | 1 | 1 | 4 | 2 | 3 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 34 |
| natural ground, rock | | | | | 1 | | | | | | | 1 | | | | | | 1 | | | 1 | 1 | | | 5 |
| standing tree | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | 2 |
| water | | | | | 2 | | 2 | | 1 | 2 | | | | | | 1 | 1 | | | | 1 | 2 | | | 12 |
| abnormal | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| environment | | | | | | | | 1 | | 1 | | 1 | | | | | | | 1 | | | | 2 | | 6 |
| high/cold temperature environment | | | 1 | | 1 | | | 1 | 1 | 4 | 1 | 1 | 2 | 1 | 1 | 2 | | 2 | 1 | 1 | 7 | 6 | 2 | 5 | 40 |
| other environments | | | 4 | | 2 | | 1 | 2 | 1 | 3 | | 2 | | 4 | 2 | 1 | 1 | 4 | 1 | 6 | 1 | 2 | 1 | 3 | 41 |
| other causal agent | | | 7 | | 6 | | 5 | 2 | 11 | 6 | 5 | 4 | 1 | | 4 | 2 | 4 | 6 | 5 | 5 | 7 | 2 | 63 | 6 | 151 |
| no causal agent | | | 12 | | 12 | | 13 | 17 | 15 | 10 | 7 | 12 | 10 | 6 | 8 | 8 | 5 | 10 | 9 | 14 | 22 | 28 | 21 | 23 | 262 |
| unclassifiable | | | 3 | | | | 1 | | 3 | 1 | | | | 1 | 1 | 2 | 1 | 1 | | 1 | | | | | 15 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Workers age of fatal and non-fatal accidents in other chemical 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 | 13 | 8 | 11 | 6 | 9 | 7 | 5 | 13 | 6 | 7 | 4 | 6 | 2 | 4 | 6 | 7 | 5 | 4 | 5 | 9 | 4 | 11 | 7 | 3 | 162 |
| 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 | 46 | 1,276 |
| 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 | 61 | 1,707 |
| 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 | 75 | 1,771 |
| 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 | 85 | 1,953 |
| 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 | 54 | 907 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Workers' number of workplace of fatal and non-fatal accidents in other chemical 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 | 77 | 56 | 61 | 61 | 68 | 63 | 62 | 51 | 59 | 38 | 37 | 31 | 29 | 30 | 22 | 29 | 32 | 30 | 32 | 35 | 25 | 29 | 29 | 35 | 1,021 |
| 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 | 53 | 1,679 |
| 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 | 45 | 1,127 |
| 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 | 48 | 1,339 |
| 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 | 94 | 1,853 |
| 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 | 49 | 757 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Month of fatal and non-fatal accidents in other chemical 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 | 37 | 46 | 29 | 22 | 26 | 24 | 35 | 31 | 24 | 31 | 29 | 36 | 18 | 18 | 17 | 18 | 19 | 23 | 32 | 31 | 23 | 26 | 36 | 25 | 656 |
| February | 32 | 43 | 47 | 29 | 25 | 21 | 27 | 35 | 32 | 31 | 17 | 27 | 18 | 28 | 25 | 29 | 23 | 13 | 35 | 33 | 32 | 40 | 22 | 25 | 689 |
| March | 40 | 31 | 30 | 27 | 32 | 19 | 33 | 38 | 41 | 39 | 24 | 27 | 23 | 19 | 20 | 22 | 18 | 18 | 31 | 30 | 26 | 33 | 27 | 28 | 676 |
| April | 33 | 31 | 32 | 26 | 33 | 33 | 43 | 28 | 37 | 26 | 19 | 17 | 21 | 14 | 16 | 16 | 26 | 23 | 20 | 16 | 16 | 26 | 22 | 25 | 599 |
| May | 33 | 37 | 33 | 20 | 33 | 29 | 19 | 24 | 26 | 16 | 22 | 22 | 34 | 21 | 18 | 25 | 22 | 13 | 17 | 23 | 21 | 18 | 33 | 24 | 583 |
| June | 45 | 41 | 31 | 22 | 26 | 35 | 34 | 29 | 22 | 22 | 23 | 23 | 30 | 26 | 17 | 19 | 25 | 28 | 28 | 26 | 34 | 27 | 37 | 28 | 678 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July | 33 | 45 | 49 | 42 | 32 | 39 | 28 | 36 | 28 | 29 | 32 | 23 | 22 | 20 | 27 | 29 | 23 | 23 | 27 | 28 | 32 | 30 | 36 | 31 | 744 |
| August | 50 | 29 | 28 | 28 | 24 | 33 | 34 | 31 | 28 | 28 | 26 | 30 | 20 | 21 | 22 | 26 | 13 | 31 | 15 | 35 | 31 | 29 | 45 | 24 | 681 |
| September | 38 | 28 | 28 | 44 | 37 | 33 | 25 | 28 | 29 | 23 | 19 | 25 | 27 | 25 | 18 | 16 | 23 | 18 | 27 | 20 | 21 | 28 | 39 | 40 | 659 |
| October | 54 | 39 | 36 | 25 | 31 | 25 | 21 | 24 | 25 | 25 | 24 | 27 | 23 | 26 | 23 | 19 | 26 | 32 | 23 | 30 | 26 | 34 | 34 | 27 | 679 |
| November | 32 | 39 | 29 | 27 | 31 | 24 | 19 | 20 | 24 | 18 | 28 | 20 | 19 | 26 | 20 | 24 | 22 | 14 | 25 | 34 | 30 | 29 | 33 | 31 | 618 |
| December | 40 | 25 | 21 | 24 | 21 | 25 | 33 | 22 | 21 | 16 | 19 | 12 | 27 | 15 | 17 | 22 | 19 | 23 | 31 | 11 | 16 | 18 | 20 | 16 | 514 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

Prefecture of fatal and non-fatal accidents in other chemical 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 | 7 | 8 | 9 | | 3 | | 4 | 7 | 6 | 3 | 7 | 5 | 6 | 3 | 3 | 5 | 4 | 6 | 8 | 5 | 3 | 6 | 3 | 7 | 118 |
| Aomori | 1 | | 1 | | | | | | | | | | 2 | 2 | | | | | | | | | | | 6 |
| Iwate | 2 | 2 | 2 | | 4 | | 8 | 3 | 3 | 4 | 2 | 1 | 1 | 2 | 4 | 2 | 2 | 4 | 3 | 1 | | 5 | 3 | 5 | 63 |
| Miyagi | 6 | 8 | 7 | | 3 | | 8 | 2 | 4 | 2 | 1 | 4 | 2 | 9 | 2 | 2 | 3 | 3 | 2 | 5 | 2 | 2 | 4 | 1 | 82 |
| Akita | 1 | | 4 | | 1 | | 1 | | | | | | | | | | | | | | 1 | | | 1 | 9 |
| Yamagata | | 1 | 1 | | 2 | | | | 1 | 2 | 1 | 3 | 4 | 3 | 2 | 1 | 2 | 2 | 1 | 1 | | | 2 | 1 | 30 |
| Fukushima | 4 | 3 | 6 | | 4 | | | 5 | 5 | 4 | 4 | 5 | 5 | 9 | 3 | 5 | 3 | 2 | 8 | 6 | 5 | 3 | 9 | 8 | 106 |
| Ibaraki | 6 | 7 | 17 | | 15 | | 18 | 9 | 9 | 10 | 11 | 13 | 15 | 9 | 7 | 14 | 14 | 14 | 19 | 16 | 11 | 14 | 14 | 17 | 279 |
| Tochigi | 6 | 9 | 6 | | 6 | | 7 | 5 | 11 | 5 | 7 | 7 | 6 | 8 | 6 | 5 | 8 | 5 | 6 | 7 | 9 | 5 | 19 | 3 | 156 |
| Gunma | 16 | 13 | 11 | | 12 | | 9 | 20 | 17 | 6 | 6 | 11 | 8 | 8 | 3 | 15 | 9 | 11 | 9 | 8 | 13 | 16 | 25 | 11 | 257 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Saitama | 45 | 38 | 25 | | 35 | | 24 | 33 | 19 | 23 | 31 | 33 | 22 | 21 | 21 | 18 | 31 | 26 | 27 | 25 | 20 | 25 | 25 | 32 | 599 |
| Chiba | 17 | 16 | 17 | | 9 | | 15 | 9 | 16 | 23 | 14 | 15 | 13 | 15 | 13 | 10 | 8 | 8 | 15 | 14 | 11 | 15 | 19 | 17 | 309 |
| Tokyo | 16 | 16 | 15 | | 17 | | 10 | 9 | 10 | 10 | 4 | 4 | 7 | 2 | 4 | 5 | 3 | 5 | 11 | 4 | 9 | 12 | 6 | 4 | 183 |
| Kanagawa | 35 | 20 | 34 | | 30 | | 29 | 28 | 15 | 28 | 22 | 28 | 22 | 22 | 20 | 33 | 26 | 27 | 25 | 27 | 23 | 29 | 58 | 30 | 611 |
| Niigata | 5 | 4 | 3 | | 4 | | 5 | 3 | 9 | 6 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 1 | 2 | 5 | 1 | 6 | 6 | 7 | 85 |
| Toyama | 8 | 7 | 1 | | 6 | | 1 | 4 | 5 | 1 | 4 | 1 | 4 | 4 | 1 | 1 | 2 | 3 | 2 | 2 | 4 | 2 | | 2 | 65 |
| Ishikawa | | 1 | 1 | | 1 | | | | 1 | | | | | 2 | | 1 | | | | 1 | | 1 | 2 | 1 | 12 |
| Fukui | 7 | 3 | | | | | 6 | 1 | | 1 | | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 38 |
| Yamanashi | 5 | | 2 | | 2 | | 1 | 3 | 1 | 4 | 4 | | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 6 | 3 | 1 | 4 | 54 |
| Nagano | 10 | 6 | 3 | | 1 | | 1 | 2 | 4 | 5 | 2 | 2 | 2 | | 1 | 4 | 1 | 2 | 1 | | 6 | 2 | 1 | 2 | 58 |
| Gifu | 11 | 16 | 8 | | 13 | | 14 | 9 | 8 | 9 | 5 | 8 | 9 | 6 | 6 | 6 | 4 | 5 | 3 | 9 | 6 | 5 | 13 | 5 | 178 |
| Shizuoka | 31 | 29 | 16 | | 22 | | 14 | 16 | 9 | 12 | 7 | 11 | 10 | 6 | 7 | 4 | 10 | 9 | 16 | 24 | 20 | 14 | 12 | 15 | 314 |
| Aichi | 19 | 32 | 27 | | 29 | | 27 | 19 | 22 | 21 | 21 | 18 | 18 | 17 | 15 | 13 | 9 | 13 | 22 | 13 | 20 | 17 | 15 | 13 | 420 |
| Mie | 6 | 16 | 10 | | 3 | | 13 | 9 | 15 | 13 | 7 | 6 | 11 | 9 | 7 | 3 | 5 | 10 | 7 | 7 | 11 | 6 | 17 | 8 | 199 |
| Shiga | 11 | 8 | 11 | | 8 | | 14 | 11 | 10 | 11 | 10 | 12 | 6 | 4 | 6 | 16 | 8 | 9 | 15 | 12 | 12 | 9 | 9 | 8 | 220 |
| Kyoto | 10 | 5 | 3 | | 6 | | 7 | 8 | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 11 | 2 | 7 | 9 | 3 | 1 | 1 | 5 | 103 |
| Osaka | 66 | 70 | 56 | | 38 | | 43 | 57 | 48 | 34 | 46 | 43 | 21 | 33 | 30 | 33 | 30 | 33 | 28 | 31 | 24 | 42 | 38 | 33 | 877 |
| Hyogo | 29 | 27 | 24 | | 22 | | 24 | 22 | 22 | 19 | 18 | 13 | 24 | 14 | 21 | 17 | 13 | 24 | 17 | 22 | 29 | 21 | 25 | 23 | 470 |
| Nara | 11 | 7 | 5 | | 2 | | 4 | 4 | 6 | 4 | 3 | 2 | 1 | 4 | 5 | 5 | 7 | 4 | 4 | 11 | 9 | 2 | 7 | 3 | 110 |
| Wakayama | 8 | 2 | 9 | | | | 7 | 9 | 7 | 6 | 6 | 7 | 5 | 6 | 13 | 2 | 5 | 3 | 8 | 9 | 6 | 11 | 8 | 7 | 144 |
| Tottori | | | 1 | | | | | 1 | 1 | 1 | | | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 4 | | 15 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Shimane | | 4 | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | | 1 | | | | | | | 2 | | 1 | 14 |
| Okayama | 10 | 13 | 13 | | 11 | | 8 | 2 | 13 | 3 | 6 | 7 | 13 | 6 | 9 | 10 | 3 | 4 | 9 | 10 | 14 | 13 | 5 | 9 | 191 |
| Hiroshima | 2 | 6 | 10 | | 7 | | 4 | 4 | 5 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 3 | | 3 | 3 | 2 | 2 | 4 | 4 | 74 |
| Yamaguchi | 9 | 6 | 6 | | 5 | | 6 | 8 | 4 | 4 | 5 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 4 | 1 | 9 | 1 | 1 | 87 |
| Tokushima | 3 | 2 | 1 | | 2 | | 2 | 1 | 3 | | | | 3 | | 2 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 6 | 49 |
| Kagawa | 3 | 2 | 1 | | 3 | | 2 | 4 | 3 | 5 | 5 | 2 | 4 | 4 | 5 | 5 | 6 | 2 | 4 | 2 | 1 | 3 | 4 | 3 | 73 |
| Ehime | 5 | 6 | 8 | | 2 | | 1 | | | 1 | | 2 | 3 | 1 | 3 | 1 | 3 | | 3 | 2 | 3 | 3 | 4 | 2 | 53 |
| Kochi | 1 | | | | 2 | | | | 1 | | | 1 | 2 | 2 | 1 | 2 | 1 | | 4 | 1 | 4 | 3 | | 1 | 26 |
| Fukuoka | 16 | 9 | 10 | | 15 | | 7 | 13 | 8 | 9 | 10 | 6 | 9 | 5 | 4 | 5 | 7 | 9 | 5 | 6 | 5 | 14 | 11 | 10 | 193 |
| Saga | 4 | 2 | | | | | 1 | | | 4 | | | 1 | 1 | 1 | | 2 | | 1 | 2 | 2 | 2 | | 1 | 24 |
| Nagasaki | 1 | | | | | | | | 5 | 1 | 1 | 1 | 1 | | | | | | 2 | | | 1 | 1 | | 14 |
| Kumamoto | 4 | 4 | | | 1 | | | 2 | 2 | 1 | | | 1 | 1 | 2 | 4 | 3 | 3 | | 3 | 4 | 3 | 1 | 2 | 41 |
| Oita | 7 | 6 | 3 | | 1 | | 2 | | 3 | 1 | 1 | 4 | 1 | 3 | | 2 | 2 | | | 1 | | | 1 | 5 | 43 |
| Miyazaki | 2 | | 3 | | 2 | | 2 | 1 | 1 | 1 | | | | 1 | | 1 | 1 | | 2 | | 2 | 1 | | 3 | 23 |
| Kagoshima | | | 1 | | | | 1 | 1 | 1 | | | 1 | | 1 | 1 | | | | 1 | 2 | 1 | 2 | 1 | 1 | 15 |
| Okinawa | 1 | | 2 | | 1 | | | 1 | | 1 | | 1 | 1 | | | | | | | 2 | | | | | 10 |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 |

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)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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

other chemical products industry Code No.010899

Type of fatal accidents in other chemical 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 | | | | 1 | 1 | | | 1 | | | | | | 2 | | 1 | | 1 | 1 | | 1 | | | | 9 |
| falling to same level | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 |
| crash | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 |
| struck by flying or falling object | | | | | | | | | | | | | | | | | | | | | | | | | |
| collapse | | | | | | | | | | | | | | | | | | | | | | | | | |
| crashed by | 1 | | | | | | | | | 1 | | | | | | 1 | 1 | | | | | | | | 4 |
| caught in/between | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | | 1 | 1 | 1 | 2 | | 1 | | 1 | | 1 | | | | | | 17 |
| cut | | | | | | | | | | | | | | | | | | | | | | | | | |
| injury to the sole of the foot | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| drown | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 |
| contact to high/low-temperature | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 |
| contact to harmful substance | | | 1 | | | | | 3 | | 2 | 1 | | | | | | | | 1 | | 1 | | | 1 | 10 |
| electric shock | | | | | | | | | | | | | | | | | | | | | | | | | |
| explosion | 2 | 1 | | | | | 1 | 1 | | | 1 | 1 | | | | | | | 1 | 3 | 1 | | | 1 | 13 |
| burst | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| fire | | | 1 | | | | | | 2 | | | | | | | | | | | | | | | | 3 |
| traffic accident (public road) | | | | | 1 | 1 | | | | 1 | | | 1 | | | | | | | | | | | 1 | 5 |
| traffic accident (others) | | | | | | | | | | | | | | | | | | | | | | | | | |
| reaction to motion/improper motion | | | | | | | | | | | | | | | | | | | | | | | | | |
| others | | | | | | | | | | | | | | | | | | | | | | | | | |
| unclassifiable | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Causal agents (large) of fatal accidents in other chemical 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 | 1 | | 1 | | 1 | 2 | | | 1 | 1 | 1 | | | | 1 | | | 1 | | | | | 12 |
| crane, conveying machine | | | | 2 | 3 | 1 | | 1 | | 1 | | | 2 | | 1 | 1 | 1 | | 1 | | | 1 | | 1 | 16 |
| other equipment | | | | | | | | | | 2 | | | | | | | | 1 | 1 | | | | | | 4 |
| temporary buildings, establishments | | | | | 1 | | | | | | | | | 2 | | 1 | | 1 | | | 1 | | 1 | | 7 |
| substance, material | 1 | 1 | 2 | | | | 1 | 3 | 2 | 2 | 2 | 1 | | | | | | | 2 | 3 | 2 | | | 2 | 24 |
| load | | | | | | | | | | | | | | | | | | | | | | | | | |
| environment | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| others | 2 | | | | | | | | | | | | | | | | 1 | | | | | | | | 3 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Causal agents (middle) of fatal accidents in other chemical 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 | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| metal manufacturing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| general machine | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 1 | 1 | 1 | | | | 1 | | | 1 | | | | | 11 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | 2 |
| conveying machine | | | | 1 | 2 | | | 1 | | | | | 1 | | | 1 | 1 | | 1 | | | 1 | | | 9 |
| vehicle | | | | | 1 | 1 | | | | 1 | | | 1 | | | | | | | | | | | 1 | 5 |
| pressure vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| chemical facilities | | | | | | | | | | | | | | | | | | | | | | | | | |
| welding equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| kiln, caldron | | | | | | | | | | | | | | | | | | | | | | | | | |
| electric equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| human power machine, tools | | | | | | | | | | | | | | | | | | | | | | | | | |
| tools | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| other equipments, | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| facilities | | | | | | | | | | 2 | | | | | | | | 1 | | | | | | | 3 |
| temporary buildings, establishments | | | | | 1 | | | | | | | | | 2 | | 1 | | 1 | | | 1 | | 1 | | 7 |
| hazards, harmful substances | 1 | 1 | 2 | | | | 1 | 3 | 2 | 2 | 2 | 1 | | | | | | | 2 | 3 | 2 | | | 2 | 24 |
| materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| load | | | | | | | | | | | | | | | | | | | | | | | | | |
| natural environment | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| other causal agent | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| no causal agent | | | | | | | | | | | | | | | | | | | | | | | | | |
| unclassifiable | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Causal agents (small) of fatal accidents in other chemical 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |

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| demolition machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| vehicle for high lift work | | | | | | | | | | | | | | | | | | | | | | | | | |
| other construction machines | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| 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 | | | 1 | | | | | | | | | 1 | | | 1 | | | | | 5 |
| roll machine (except printingroll machine) | | | | | | | | | | | | | | | | | | | | | | | | | |

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| injection molding machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| food manufacturing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| printing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| industrial robot | | | | | | | | | | | | | | | | | | | | | | | | | |
| other general power machines | 1 | | 1 | | | | 1 | | | | 1 | 1 | 1 | | | | | | | | | | | | 6 |
| felling machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mobile logging machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| skyline yarding machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 |
| mobile crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| derrick crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| elevator, lift | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 |
| cargo lifting appliance | | | | | | | | | | | | | | | | | | | | | | | | | |
| gondola | | | | | | | | | | | | | | | | | | | | | | | | | |

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| lumberyard equipment, logging cableway | | | | | | | | | | | | | | | | | | | | | | | | | |
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| truck | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| forklift | | | | 1 | 1 | | | 1 | | | | | | | | 1 | | | | | | 1 | | | 5 |
| railway equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| conveyor | | | | | 1 | | | | | | | | 1 | | | | 1 | | | | | | | | 3 |
| loader | | | | | | | | | | | | | | | | | | | | | | | | | |
| straddle carrier | | | | | | | | | | | | | | | | | | | | | | | | | |
| rough terrain hauler | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered conveying machines | | | | | | | | | | | | | | | | | | | | | | | | | |
| cars, bus, motorcycle | | | | | 1 | 1 | | | | 1 | | | 1 | | | | | | | | | | | 1 | 5 |
| railway vehicle | | | | | | | | | | | | | | | | | | | | | | | | | |
| other vehicles | | | | | | | | | | | | | | | | | | | | | | | | | |
| boiler | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |

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| human power machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| hand tool | | | | | | | | | | | | | | | | | | | | | | | | | |
| ladder | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| slinging tool | | | | | | | | | | | | | | | | | | | | | | | | | |
| other tools | | | | | | | | | | | | | | | | | | | | | | | | | |
| other equipment, facilities | | | | | | | | | | 2 | | | | | | | | 1 | | | | | | | 3 |
| scaffolding | | | | | | | | | | | | | | | | | | | | | | | | | |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | | |
| stairs, landing stage | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 |
| opening | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 |
| roof, beam, haze, crossbeam, principal rafter | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| working platform, boot board | | | | | | | | | | | | | | | | | | | | | | | | | |
| passage | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| building, establishment | | | | | 1 | | | | | | | | | 1 | | | | | | | | | 1 | | 3 |
| other temporary buildings, | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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| environment | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| high/cold temperature environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other environments | | | | | | | | | | | | | | | | | | | | | | | | | |
| other causal agent | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| no causal agent | | | | | | | | | | | | | | | | | | | | | | | | | |
| unclassifiable | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Workers age of fatal accidents in other chemical 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 | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| 20-29 | | | 1 | | 1 | | | 1 | | | 1 | 1 | | | | | | | | | | | | 1 | 6 |
| 30-39 | 1 | 2 | | | 2 | 1 | 1 | 3 | 1 | | 1 | | 2 | 1 | | | | | 2 | 1 | | | | | 18 |
| 40-49 | 1 | | 1 | 1 | | | | 1 | | 1 | | | | | | | 1 | 1 | | 2 | | | 1 | 1 | 11 |
| 50-59 | 1 | | | 1 | 2 | | 1 | 1 | 1 | 3 | | | | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | | 19 |
| 60 years old or more | 1 | | 1 | | | | | 1 | | | 1 | 1 | 1 | | 1 | | 1 | | 1 | | 2 | | | 1 | 12 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Workers' number of workplace of fatal accidents in other chemical 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 | | 1 | | | | 1 | | 1 | | 2 | 1 | 1 | 1 | | | | 1 | 1 | | 1 | 1 | | | 1 | 13 |
| 10-29 | 2 | | 2 | 1 | 1 | | | 2 | | | | | | | 1 | | 1 | 1 | 2 | 2 | | | | | 15 |
| 30-49 | 2 | | | | 2 | | 1 | 2 | 2 | 1 | | | 1 | | | | 1 | | 1 | | 2 | | | 1 | 16 |
| 50-99 | | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | | | | | | | | | | | 8 |
| 100-299 | | | | | 2 | | | | | | 1 | 1 | 1 | 1 | | 2 | | | 1 | | | 1 | 1 | 1 | 12 |
| 300 workers or more | | | | | | | | 1 | | 1 | | | | | | | | | | 1 | | | | | 3 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Month of fatal accidents in other chemical 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 | | | | | 1 | | | | | | 1 | | | 1 | | | | | | 5 |
| February | 2 | | | 1 | | | | 1 | | | | 1 | 1 | | | | | | | 1 | | | | | 7 |
| March | | 1 | | | | | 1 | | | | | | | | | | | | | | | | | 2 | 4 |
| April | | | | | | | | 1 | | 3 | | | | | | | | | | | | | | | 4 |
| May | | | | | | | | | | | | | 2 | 1 | | | 1 | | | | 2 | | | | 6 |
| June | | | | | 1 | 1 | | 1 | | | | | | | | | | 1 | | 2 | | | | | 6 |

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| July | | | | | 1 | | | 2 | | | | | | | | | 1 | | | | | | | | 4 |
| August | 1 | | 1 | 1 | | | | 1 | | | 1 | | | | | | | 1 | | | | 1 | 1 | | 8 |
| September | | | 1 | | 1 | | | | | 1 | | | | | | | 1 | | 1 | | 1 | | | 1 | 7 |
| October | | | 1 | | 1 | | | | | | | 1 | | | 1 | 1 | | | 1 | 1 | | | | | 7 |
| November | 1 | | | | | | | | 2 | | 2 | | | 1 | | | | | | | | | | | 6 |
| December | | | | | | | 1 | 1 | | | | | | | | | | | 1 | | | | | | 3 |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

Prefecture of fatal accidents in other chemical 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 |
| Aomori | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iwate | | | | | | | | | | | | | | | | | | | | | | | | | |
| Miyagi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Akita | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |
| Yamagata | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fukushima | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ibaraki | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tochigi | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 |
| Gunma | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 2 |

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| Saitama | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 |
| Chiba | | | | | 1 | | | | 2 | 1 | 1 | | | | | 1 | | | | | | | | | 6 |
| Tokyo | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 |
| Kanagawa | | | 1 | | | | | | | | | | 1 | | | | | | 1 | 1 | | | | | 4 |
| Niigata | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 |
| Toyama | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ishikawa | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fukui | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 |
| Yamanashi | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 |
| Nagano | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 |
| Gifu | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shizuoka | | | | | | | | | | 1 | | | | | | | | | 1 | 2 | | | | | 4 |
| Aichi | | | | | | | | | | | 2 | | | 1 | | | | | 1 | | | | | | 4 |
| Mie | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 |
| Shiga | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | | 3 |
| Kyoto | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | 2 |
| Osaka | | | | | 1 | | | 1 | | 1 | | | | | | | | 1 | 1 | 1 | 1 | | | | 7 |
| Hyogo | | | | | | | 1 | | | | | 1 | 1 | | | | 1 | 1 | | | 1 | | | | 6 |
| Nara | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wakayama | 1 | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | 3 |
| Tottori | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Shimane | | | | | | | | | | | | | | | | | | | | | | | | | |
| Okayama | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hiroshima | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 |
| Yamaguchi | | | | | | | | 1 | | | | | | | | | | | | | | 1 | | | 2 |
| Tokushima | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kagawa | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | 2 |
| Ehime | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 |
| Kochi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fukuoka | 2 | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | 4 |
| Saga | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nagasaki | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kumamoto | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oita | | | | | | | | | | | | | | | | | | | | | | | | | |
| Miyazaki | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Kagoshima | | | | | | | | | | | | | | | | | | | | | | | | | |
| Okinawa | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 7 | 2 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 3 | 67 |

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html