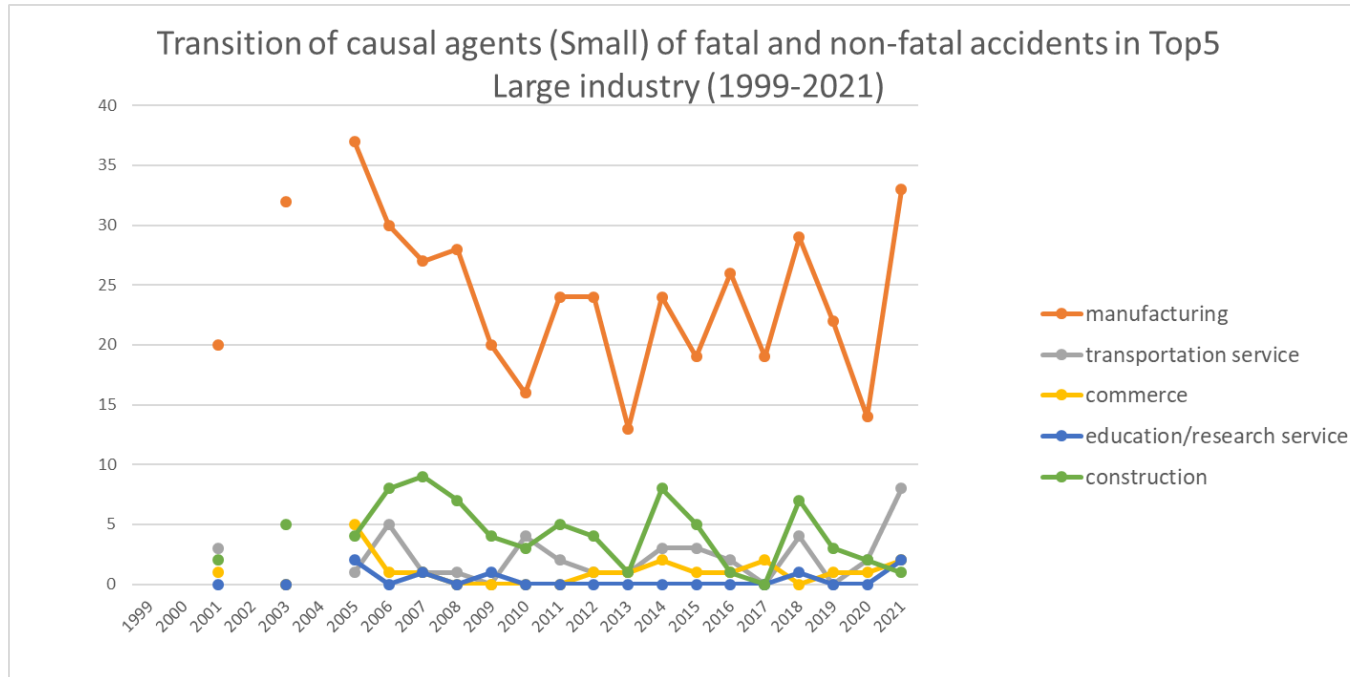
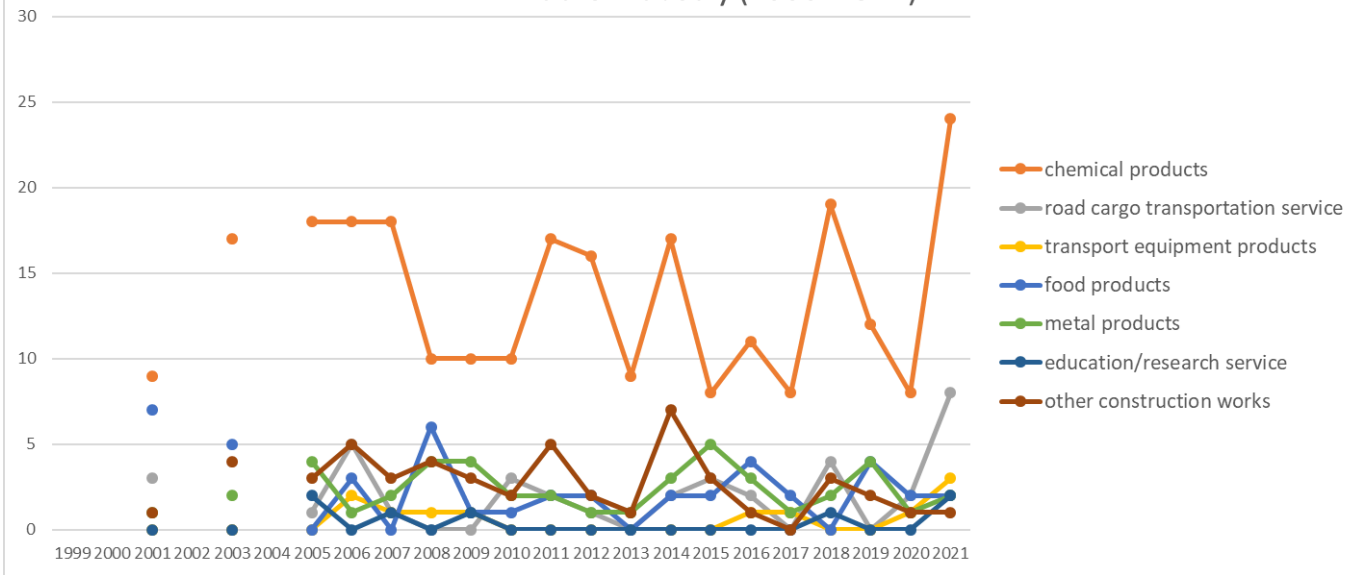


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities (1999-2021)



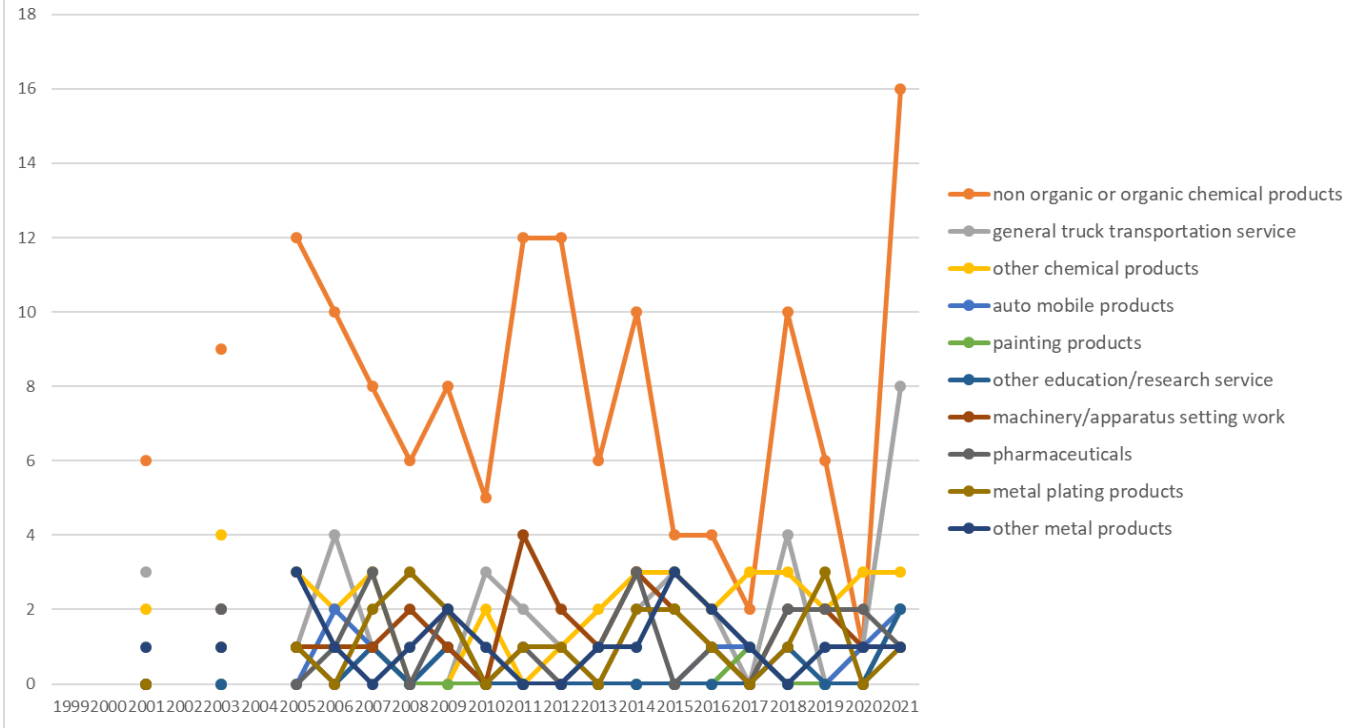
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities in Large industry (1999-2021)

### Transition of causal agents (Small) of fatal and non-fatal accidents in Top7 Middle industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities in Middle Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents in Top10 Small industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities in Large industry (1999-2021)

| code | Large industry                            | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Large industry                            |
|------|-------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------------------------------|
| 01   | manufacturing                             |      |      | 20   |      | 32   |      | 37   | 30   | 27   | 28   | 20   | 16   | 24   | 24   | 13   | 24   | 19   | 26   | 19   | 29   | 22   | 14   | 33   | 457   | manufacturing                             |
| 04   | transportation service                    |      |      | 3    |      |      |      | 1    | 5    | 1    | 1    |      | 4    | 2    | 1    | 1    | 3    | 3    | 2    |      | 4    |      | 2    | 8    | 41    | transportation service                    |
| 08   | commerce                                  |      |      | 1    |      |      |      | 5    | 1    | 1    |      |      |      |      | 1    | 1    | 2    | 1    | 1    | 2    |      | 1    | 1    | 2    | 20    | commerce                                  |
| 12   | education/research service                |      |      |      |      |      |      | 2    |      | 1    |      | 1    |      |      |      |      |      |      |      |      | 1    |      |      | 2    | 7     | education/research service                |
| 03   | construction                              |      |      | 2    |      | 5    |      | 4    | 8    | 9    | 7    | 4    | 3    | 5    | 4    | 1    | 8    | 5    | 1    |      | 7    | 3    | 2    | 1    | 79    | construction                              |
| 15   | commercial cleaning and livestock process |      |      | 1    |      |      |      | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |      | 1    | 1    |      | 1    |      | 1    | 2    | 1    | 18    | commercial cleaning and livestock process |
| 17   | others                                    |      |      |      |      | 3    |      | 3    |      |      | 2    |      |      | 1    | 1    | 1    |      |      |      | 1    | 1    | 2    |      |      | 15    | others                                    |

|    |                                    |  |  |  |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  |   |                                    |
|----|------------------------------------|--|--|--|----|---|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-------|--|---|------------------------------------|
| 14 | hotel/restaurant/amusement service |  |  |  |    |   |    |   |    |    |    |    |    | 1  |    |    |    | 1  | 1  | 1  | 1  |    |    |    |    |     |       |  | 5 | hotel/restaurant/amusement service |
| 05 | cargo handling service             |  |  |  |    | 2 |    | 1 |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  | 4 | cargo handling service             |
| 13 | health and hygiene service         |  |  |  |    | 1 |    |   |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |     |       |  | 2 | health and hygiene service         |
| 02 | mining                             |  |  |  |    |   |    |   |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  | 1 | mining                             |
| 06 | agriculture                        |  |  |  |    |   |    |   |    |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |     |       |  | 1 | agriculture                        |
| 07 | livestock/fishery                  |  |  |  |    |   |    | 1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  | 1 | livestock/fishery                  |
| 09 | financial business/advertisement   |  |  |  |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  |   | financial business/advertisement   |
| 10 | movie/play service                 |  |  |  |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  |   | movie/play service                 |
| 11 | telecommunication service          |  |  |  |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  |   | telecommunication service          |
| 16 | public office                      |  |  |  |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |       |  |   | public office                      |
|    | total                              |  |  |  | 27 |   | 44 |   | 57 | 45 | 40 | 40 | 26 | 25 | 33 | 33 | 17 | 38 | 29 | 32 | 24 | 43 | 30 | 21 | 47 | 651 | total |  |   |                                    |

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities in Middle industry (1999-2021)

| code | Middle industry                   | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Middle industry                   |
|------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------------------------------|
| 0108 | chemical products                 |      |      | 9    |      | 17   |      | 18   | 18   | 18   | 10   | 10   | 10   | 17   | 16   | 9    | 17   | 8    | 11   | 8    | 19   | 12   | 8    | 24   | 259   | chemical products                 |
| 0403 | road cargo transportation service |      |      | 3    |      |      |      | 1    | 5    | 1    |      |      | 3    | 2    | 1    |      | 2    | 3    | 2    |      | 4    |      | 2    | 8    | 37    | road cargo transportation service |
| 0115 | transport equipment products      |      |      |      |      |      |      |      | 2    | 1    | 1    | 1    |      |      |      |      |      |      | 1    | 1    |      |      | 1    | 3    | 11    | transport equipment products      |
| 0101 | food products                     |      |      | 7    |      | 5    |      |      | 3    |      | 6    | 1    | 1    | 2    | 2    |      | 2    | 2    | 4    | 2    |      | 4    | 2    | 2    | 45    | food products                     |
| 0112 | metal products                    |      |      | 1    |      | 2    |      | 4    | 1    | 2    | 4    | 4    | 2    | 2    | 1    | 1    | 3    | 5    | 3    | 1    | 2    | 4    | 1    | 2    | 45    | metal products                    |
| 1201 | education/research service        |      |      |      |      |      |      | 2    |      | 1    |      | 1    |      |      |      |      |      |      |      |      | 1    |      |      | 2    | 7     | education/research service        |
|      | other construction                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       | other construction                |

|      |                                           |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                                           |
|------|-------------------------------------------|--|--|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------------------------------------------|
| 0303 | other construction works                  |  |  | 1 |  | 4 |  | 3 | 5 | 3 | 4 | 3 | 2 | 5 | 2 | 1 | 7 | 3 | 1 |   | 3 | 2 | 1 | 1 | 51 | works                                     |
| 0114 | electrical equipment products             |  |  | 1 |  | 1 |  | 2 | 4 |   | 4 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 |   | 1 |   |   | 1 | 25 | electrical equipment products             |
| 0111 | nonferrous metal making                   |  |  |   |  | 1 |  | 3 | 2 | 2 | 1 |   |   |   |   | 1 |   |   | 4 | 2 | 3 |   |   | 1 | 20 | nonferrous metal making                   |
| 1501 | commercial cleaning and livestock process |  |  | 1 |  |   |  | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 |   | 1 | 2 | 1 | 18 | commercial cleaning and livestock process |
| 0802 | retail                                    |  |  | 1 |  |   |  | 4 | 1 | 1 |   |   |   |   | 1 | 1 | 2 | 1 |   | 2 |   | 1 |   | 1 | 16 | retail                                    |
| 0801 | wholesale                                 |  |  |   |  |   |  | 1 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 1 | 1 | 4  | wholesale                                 |
| 0302 | construction work                         |  |  |   |  | 1 |  | 1 | 3 | 6 | 3 | 1 | 1 |   | 2 |   | 1 | 2 |   |   | 4 | 1 | 1 |   | 27 | construction work                         |
| 0113 | machine products                          |  |  | 2 |  | 1 |  | 1 |   | 2 | 1 |   | 1 | 2 |   |   | 1 | 2 |   |   | 1 |   |   |   | 14 | machine products                          |
| 1702 | others                                    |  |  |   |  | 2 |  | 3 |   |   | 2 |   |   | 1 | 1 | 1 |   |   |   | 1 | 1 | 2 |   |   | 14 | others                                    |
| 0117 | other manufacturing                       |  |  |   |  | 2 |  | 2 |   | 1 |   |   |   |   | 1 |   |   |   | 1 | 2 | 2 | 1 |   |   | 12 | other manufacturing                       |
| 0106 | pulp/paper processing products            |  |  |   |  |   |  | 1 |   |   |   |   |   |   | 1 |   |   |   |   | 3 | 1 |   | 1 |   | 7  | pulp/paper processing products            |
| 0109 | sand and stone products                   |  |  |   |  |   |  | 5 |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  | sand and stone products                   |
| 0110 | steel making                              |  |  |   |  | 2 |  | 1 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 1 |   | 6  | steel making                              |
| 1402 | restaurant                                |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 1 | 1 |   |   | 4  | restaurant                                |
| 0102 | textile products                          |  |  |   |  | 1 |  |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 3  | textile products                          |
| 0402 | road passenger transport service          |  |  |   |  |   |  |   |   |   |   |   | 1 |   |   | 1 | 1 |   |   |   |   |   |   |   | 3  | road passenger transport service          |
| 0501 | land cargo handling service               |  |  |   |  | 1 |  | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 3  | land cargo handling service               |
| 0104 | wood products                             |  |  |   |  |   |  |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   | 2  | wood products                             |
| 1302 | social welfare facility                   |  |  |   |  | 1 |  |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 2  | social welfare facility                   |
| 0105 | furniture                                 |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   | 1  | furniture                                 |

|      |                                               |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   |                                               |
|------|-----------------------------------------------|--|--|---|---|--|---|--|--|--|---|--|--|--|---|---|--|--|--|--|--|---|-----------------------------------------------|
| 0202 | quarrying                                     |  |  |   |   |  | 1 |  |  |  |   |  |  |  |   |   |  |  |  |  |  | 1 | quarrying                                     |
| 0301 | civil engineering work                        |  |  | 1 |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  | 1 | civil engineering work                        |
| 0404 | other transportation service                  |  |  |   |   |  |   |  |  |  | 1 |  |  |  |   |   |  |  |  |  |  | 1 | other transportation service                  |
| 0502 | harbor transportation service                 |  |  |   | 1 |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  | 1 | harbor transportation service                 |
| 0601 | agriculture                                   |  |  |   |   |  |   |  |  |  |   |  |  |  |   | 1 |  |  |  |  |  | 1 | agriculture                                   |
| 0701 | livestock                                     |  |  |   | 1 |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  | 1 | livestock                                     |
| 1401 | hotel                                         |  |  |   |   |  |   |  |  |  |   |  |  |  | 1 |   |  |  |  |  |  | 1 | hotel                                         |
| 1701 | dispatch service                              |  |  |   | 1 |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  | 1 | dispatch service                              |
| 0103 | fiber products                                |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | fiber products                                |
| 0107 | printing/bookbinding                          |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | printing/bookbinding                          |
| 0116 | electric/gas/water service                    |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | electric/gas/water service                    |
| 0201 | coal mining                                   |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | coal mining                                   |
| 0203 | other mining                                  |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | other mining                                  |
| 0401 | railroad/water transportation/airline service |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | railroad/water transportation/airline service |
| 0602 | forestry                                      |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | forestry                                      |
| 0702 | fishery                                       |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | fishery                                       |
| 0803 | haircut/beauty salon                          |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | haircut/beauty salon                          |
| 0804 | other commerce                                |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | other commerce                                |
| 0901 | financial business                            |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | financial business                            |
| 0902 | advertisement and mediator                    |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | advertisement and mediator                    |
| 1001 | movie/play service                            |  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |  |  |  |  |  |   | movie/play service                            |

|      |                                  |  |  |    |  |    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |                                  |
|------|----------------------------------|--|--|----|--|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----------------------------------|
| 1101 | telecommunication service        |  |  |    |  |    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | telecommunication service        |
| 1301 | medical treatment service        |  |  |    |  |    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | medical treatment service        |
| 1303 | other health and hygiene service |  |  |    |  |    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | other health and hygiene service |
| 1403 | other amusement service          |  |  |    |  |    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | other amusement service          |
| 1601 | public office                    |  |  |    |  |    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | public office                    |
|      | total                            |  |  | 27 |  | 44 |  | 57 | 45 | 40 | 40 | 26 | 25 | 33 | 33 | 17 | 38 | 29 | 32 | 24 | 43 | 30 | 21 | 47 | 651 | total                            |

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 321 chemical facilities in Small industry (1999-2021)

| code   | Small industry                           | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Small industry                           |
|--------|------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------------------------------------|
| 010801 | non organic or organic chemical products |      |      | 6    |      | 9    |      | 12   | 10   | 8    | 6    | 8    | 5    | 12   | 12   | 6    | 10   | 4    | 4    | 2    | 10   | 6    | 1    | 16   | 147   | non organic or organic chemical products |
| 040301 | general truck transportation service     |      |      | 3    |      |      |      | 1    | 4    | 1    |      |      | 3    | 2    | 1    |      | 2    | 3    | 2    |      | 4    |      | 1    | 8    | 35    | general truck transportation service     |
| 010899 | other chemical products                  |      |      | 2    |      | 4    |      | 3    | 2    | 3    |      |      | 2    |      | 1    | 2    | 3    | 3    | 2    | 3    | 3    | 2    | 3    | 3    | 41    | other chemical products                  |
| 011502 | auto mobile products                     |      |      |      |      |      |      |      | 2    | 1    |      | 1    |      |      |      |      |      |      | 1    | 1    |      |      | 1    | 2    | 9     | auto mobile products                     |
| 010808 | painting products                        |      |      |      |      |      |      | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      | 1    |      |      |      | 2    | 6     | painting products                        |
| 120109 | other education/research service         |      |      |      |      |      |      | 1    |      | 1    |      | 1    |      |      |      |      |      |      |      |      | 1    |      |      | 2    | 6     | other education/research service         |
| 030302 | machinery/apparatus setting work         |      |      |      |      | 2    |      | 1    | 1    | 1    | 2    | 1    |      | 4    | 2    | 1    | 3    | 2    | 1    |      | 2    | 2    | 1    | 1    | 27    | machinery/apparatus setting work         |
| 010803 | pharmaceuticals                          |      |      |      |      | 2    |      |      | 1    | 3    |      | 2    |      | 1    |      | 1    | 3    |      | 1    |      | 2    | 2    | 2    | 1    | 21    | pharmaceuticals                          |
| 011204 | metal plating products                   |      |      |      |      | 1    |      | 1    |      | 2    | 3    | 2    |      | 1    | 1    |      | 2    | 2    | 1    |      | 1    | 3    |      | 1    | 21    | metal plating products                   |

|        |                                                         |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                                                         |
|--------|---------------------------------------------------------|--|--|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------------------------------------------------|
| 011209 | other metal products                                    |  |  | 1 |  | 1 |  | 3 | 1 |   | 1 | 2 | 1 |   |   | 1 | 1 | 3 | 2 | 1 |   | 1 | 1 | 1 | 21 | other metal products                                    |
| 010109 | other foods                                             |  |  | 1 |  | 2 |  |   | 2 |   | 2 | 1 |   | 1 | 2 |   | 1 | 1 | 2 | 1 |   | 2 | 1 | 1 | 20 | other foods                                             |
| 010804 | petroleum/coal products                                 |  |  | 1 |  |   |  |   | 1 |   | 3 |   | 3 | 3 | 2 |   | 1 | 1 | 1 |   | 1 | 1 |   | 1 | 19 | petroleum/coal products                                 |
| 011109 | other nonferrous metal products                         |  |  |   |  |   |  | 3 | 2 |   | 1 |   |   |   |   |   |   |   | 4 | 1 | 2 |   |   | 1 | 14 | other nonferrous metal products                         |
| 011403 | electronics equipment and telecommunications apparatus  |  |  |   |  | 1 |  | 1 |   |   | 2 | 1 |   | 1 | 1 | 1 | 1 | 1 | 2 |   | 1 |   |   | 1 | 14 | electronics equipment and telecommunications apparatus  |
| 010805 | plastics products                                       |  |  |   |  |   |  | 2 | 3 | 2 |   |   |   |   |   |   |   |   |   | 1 | 1 | 1 | 1 | 1 | 12 | plastics products                                       |
| 010105 | alcoholic drinks                                        |  |  | 2 |  | 1 |  |   | 1 |   | 2 |   |   |   |   |   |   |   |   |   | 1 |   | 1 |   | 8  | alcoholic drinks                                        |
| 150109 | other cleaning and livestock process service            |  |  |   |  |   |  |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 | 2 | 1 | 5  | other cleaning and livestock process service            |
| 080109 | other wholesale                                         |  |  |   |  |   |  | 1 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 1 | 1 | 4  | other wholesale                                         |
| 080209 | other retails                                           |  |  |   |  |   |  | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1 | 4  | other retails                                           |
| 011509 | other transport equipment products                      |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1  | other transport equipment products                      |
| 030309 | other construction works                                |  |  | 1 |  | 2 |  | 2 | 4 | 2 | 2 | 1 | 2 | 1 |   |   | 4 | 1 |   |   | 1 |   |   |   | 23 | other construction works                                |
| 030201 | steel frame/reinforced concrete house construction work |  |  |   |  |   |  | 1 | 1 | 3 |   | 1 |   |   | 2 |   | 1 | 1 |   |   | 1 |   |   |   | 11 | steel frame/reinforced concrete house construction work |
| 170209 | others                                                  |  |  |   |  | 2 |  | 2 |   |   | 1 |   |   | 1 | 1 | 1 |   |   |   | 1 | 1 | 1 |   |   | 11 | others                                                  |
| 011301 | machine products                                        |  |  | 2 |  | 1 |  |   | 2 |   |   | 1 |   |   |   | 1 | 2 |   |   | 1 |   |   |   |   | 10 | machine products                                        |
| 150102 | industrial waste management service                     |  |  |   |  |   |  | 2 |   | 1 | 1 | 1 | 1 | 1 |   |   | 1 | 1 |   | 1 |   |   |   |   | 10 | industrial waste management service                     |
| 080204 | fuel retail                                             |  |  | 1 |  |   |  | 2 | 1 |   |   |   |   |   | 1 | 2 | 1 |   | 1 |   |   |   |   |   | 9  | fuel retail                                             |
| 011409 | other electrical equipment                              |  |  | 1 |  |   |  |   | 3 |   | 2 |   | 1 |   |   |   | 1 |   |   |   |   |   |   |   | 8  | other electrical equipment                              |
| 011709 | other manufacturing                                     |  |  |   |  | 1 |  | 2 |   | 1 |   |   |   | 1 |   |   |   | 1 | 1 | 1 |   |   |   |   | 8  | other manufacturing                                     |



|        |                                     |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |                                     |
|--------|-------------------------------------|--|--|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|-------------------------------------|
| 030203 | building facility construction work |  |  |   |  |   |  | 1 | 2 | 2 |   | 1 |   |   |   |   |   |   |   |   | 2 |   |   |  | 8 | building facility construction work |
| 010106 | soft drinks                         |  |  | 1 |  | 1 |  |   |   | 1 |   |   |   |   | 1 |   |   | 1 |   | 1 |   |   |   |  | 7 | soft drinks                         |
| 010809 | chemical fertilizer products        |  |  |   |  | 1 |  |   |   | 1 | 1 |   |   |   |   |   | 3 |   | 1 |   |   |   |   |  | 7 | chemical fertilizer products        |
| 030209 | other building construction work    |  |  |   |  | 1 |  |   | 1 |   | 1 |   |   |   |   |   | 1 |   |   | 1 | 1 | 1 |   |  | 7 | other building construction work    |
| 010901 | cement products                     |  |  |   |  |   |  | 5 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |  | 6 | cement products                     |
| 011101 | nonferrous metals/rolling products  |  |  |   |  | 1 |  |   |   | 2 |   |   |   |   | 1 |   |   |   | 1 | 1 |   |   |   |  | 6 | nonferrous metals/rolling products  |
| 010101 | meat/dairy products                 |  |  | 2 |  |   |  |   |   |   | 1 | 1 |   |   |   |   | 1 |   |   |   |   |   |   |  | 5 | meat/dairy products                 |
| 010806 | rubber products                     |  |  |   |  | 1 |  |   |   |   |   |   | 1 | 1 |   |   |   |   | 1 | 1 |   |   |   |  | 5 | rubber products                     |
| 011001 | steel/iron/rolling products         |  |  |   |  | 2 |  |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 1 |  | 5 | steel/iron/rolling products         |
| 010601 | pulp/paper                          |  |  |   |  |   |  | 1 |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   | 1 |   |  | 4 | pulp/paper                          |
| 140201 | general restaurant                  |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   | 1 | 1 | 1 | 1 |   |   |   |  | 4 | general restaurant                  |
| 010102 | fishery products                    |  |  | 1 |  | 1 |  |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |  | 3 | fishery products                    |
| 011401 | heavy electrical equipment          |  |  |   |  |   |  | 1 | 1 |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |  | 3 | heavy electrical equipment          |
| 040202 | bus service                         |  |  |   |  |   |  |   |   |   |   | 1 |   |   | 1 | 1 |   |   |   |   |   |   |   |  | 3 | bus service                         |
| 050101 | land cargo handling service         |  |  |   |  | 1 |  | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |  | 3 | land cargo handling service         |
| 080201 | all kinds of retail                 |  |  |   |  |   |  | 1 |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |  | 3 | all kinds of retail                 |
| 150103 | other waste disposal service        |  |  | 1 |  |   |  | 1 |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |  | 3 | other waste disposal service        |
| 170201 | security service                    |  |  |   |  |   |  | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   | 1 |   |   |  | 3 | security service                    |
| 010104 | bread/cake products                 |  |  |   |  |   |  |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |  | 2 | bread/cake products                 |
| 010204 | dyeing                              |  |  |   |  |   |  |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |  | 2 | dyeing                              |
| 010402 | plywood                             |  |  |   |  |   |  |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |  | 2 | plywood                             |
| 010602 | paper processing products           |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |  | 2 | paper processing products           |
| 011202 | screw products                      |  |  |   |  |   |  |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 |   |   |   |  | 2 | screw products                      |
|        | other precision machine             |  |  |   |  |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   | other precision machine             |

|        |                                         |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   |          |                                      |                                       |                                       |                                         |
|--------|-----------------------------------------|--|--|--|---|--|--|--|--|--|---|---|--|--|--|--|--|--|---|---|--|---|----------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|
| 011305 | products                                |  |  |  |   |  |  |  |  |  |   | 2 |  |  |  |  |  |  |   |   |  | 2 | products |                                      |                                       |                                       |                                         |
| 011702 | machine repair                          |  |  |  | 1 |  |  |  |  |  |   |   |  |  |  |  |  |  | 1 |   |  |   | 2        | machine repair                       |                                       |                                       |                                         |
| 011703 | cleaning                                |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  | 1 | 1 |  |   | 2        | cleaning                             |                                       |                                       |                                         |
| 130201 | social welfare facility                 |  |  |  | 1 |  |  |  |  |  |   | 1 |  |  |  |  |  |  |   |   |  |   | 2        | social welfare facility              |                                       |                                       |                                         |
| 010209 | other textile products                  |  |  |  | 1 |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | other textile products               |                                       |                                       |                                         |
| 010502 | metal furniture                         |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  | 1 | 1        | metal furniture                      |                                       |                                       |                                         |
| 010609 | other pulp/paper processing products    |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  | 1 | 1        | other pulp/paper processing products |                                       |                                       |                                         |
| 010802 | chemical fiber                          |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | chemical fiber                        |                                       |                                         |
| 010909 | other sand and stone products           |  |  |  |   |  |  |  |  |  | 1 |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | other sand and stone products         |                                       |                                         |
| 011009 | other steel products                    |  |  |  |   |  |  |  |  |  | 1 |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | other steel products                  |                                       |                                         |
| 011203 | metal press products                    |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | metal press products                  |                                       |                                         |
| 011302 | measuring instruments                   |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | measuring instruments                 |                                       |                                         |
| 011303 | optical instruments                     |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | optical instruments                   |                                       |                                         |
| 011501 | ship building                           |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | ship building                         |                                       |                                         |
| 020201 | quarrying                               |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | quarrying                             |                                       |                                         |
| 030110 | water supply/sewage construction work   |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  | 1 | 1        | 1                                    | water supply/sewage construction work |                                       |                                         |
| 030202 | wooden house construction work          |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | 1                                     | wooden house construction work        |                                         |
| 030301 | electricity/telecommunication work      |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | 1                                     | electricity/telecommunication work    |                                         |
| 040302 | specific truck transportation service   |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   | 1        | 1                                    | 1                                     | specific truck transportation service |                                         |
| 040309 | other land cargo transportation service |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |   |   |  |   |          | 1                                    | 1                                     | 1                                     | other land cargo transportation service |



|        |                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                         |
|--------|-----------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------------|
| 010903 | pottery products                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | pottery products                        |
| 010904 | fire resisting products                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | fire resisting products                 |
| 010905 | other ceramic products                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | other ceramic products                  |
| 011002 | casting products                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | casting products                        |
| 011102 | nonferrous metals casting products      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | nonferrous metals casting products      |
| 011201 | western tableware/cutting tool products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | western tableware/cutting tool products |
| 011304 | watch products                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | watch products                          |
| 011402 | electrical appliance                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | electrical appliance                    |
| 011503 | railway vehicle products                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | railway vehicle products                |
| 011601 | electric utility service                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | electric utility service                |
| 011602 | city gas service                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | city gas service                        |
| 011603 | city water service                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | city water service                      |
| 011609 | other electric/gas/water service        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | other electric/gas/water service        |
| 011701 | auto mobile servicing                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | auto mobile servicing                   |
| 011704 | tobacco products                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | tobacco products                        |
| 020101 | general coal mining                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | general coal mining                     |
| 020109 | other coal mining                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | other coal mining                       |
| 020202 | gravel digging                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | gravel digging                          |
| 020209 | other quarrying                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | other quarrying                         |
| 020301 | metal mining                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | metal mining                            |
| 020302 | petroleum mining                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | petroleum mining                        |
| 020309 | other mining                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | other mining                            |
| 030101 | hydroelectric plant construction work   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | hydroelectric plant construction work   |





|        |                                  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                  |       |
|--------|----------------------------------|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------------------|-------|
| 130109 | other medical treatment service  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | other medical treatment service  |       |
| 130301 | bathhouse                        |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | bathhouse                        |       |
| 130309 | other health and hygiene service |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | other health and hygiene service |       |
| 140209 | other restaurants                |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | other restaurants                |       |
| 140301 | golf course                      |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | golf course                      |       |
| 140302 | park and amusement park          |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | park and amusement park          |       |
| 140309 | other amusement service          |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | other amusement service          |       |
| 150101 | building maintenance service     |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | building maintenance service     |       |
| 150104 | cremation service                |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | cremation service                |       |
| 150105 | livestock process service        |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | livestock process service        |       |
| 160101 | public office                    |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | public office                    |       |
| 170202 | information processing service   |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | information processing service   |       |
|        | total                            |  |  | 27 | 44 | 57 | 45 | 40 | 40 | 26 | 25 | 33 | 33 | 17 | 38 | 29 | 32 | 24 | 43 | 30 | 21 | 47 | 651                              | total |

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

[https://www.jisha.or.jp/english/statistics/202212\\_03.html](https://www.jisha.or.jp/english/statistics/202212_03.html)