



### List of substances which are evaluated on reproduction toxic effects

Document date: 1 August, 2025

At request of the Minister of Social Affairs and Employment, the Health Council evaluates the effects on reproduction of substances. Since 1998, the council evaluates these properties in terms of the current level of scientific knowledge. For its judgement, the council uses a classification system, which is based on EU-Directive 1272/2008:

- |             |   |
|-------------|---|
| Category 1A | The substance is known to produce an adverse effect on sexual function and fertility.     |
| Category 1B | The substance is presumed to produce an adverse effect on sexual function and fertility.  |
| Category 2  | The substance is suspected to produce an adverse effect on sexual function and fertility. |

The categories indicate the strength of the evidence for effects on sexual function and fertility and, separately, for the development of the unborn child. In addition, the Health Council assigns the standard sentence 'may cause harm to breast-fed children' in cases of effects on or via lactation. A proposal for a classification forms the basis by the government in putting a substance in the 'Non-limitative list of substances having effects on the reproduction' (SZW-list).

Occasionally, substances are not listed by the government, although they have been judged by the Health Council. For a complete overview of substances evaluated by the council, the list below is drafted. The list is updated regularly.

| Substance name  | CAS number   | Fertility                | Development <sup>a</sup>                                   | Lactation                             | Year of publication |
|---|--|--------------------------|--|---------------------------------------|---------------------|
| <i>A</i>  |  |                          |  |                                       |                     |
| Acrylamide  | 79-06-1  | 1B                       | lack of appropriate data                                   | lack of appropriate data              | 2002                |
| All-trans retinoic acid   | 302-79-4   | lack of appropriate data | 1B   | lack of appropriate data              | 2020                |
| Aluminium:<br>- Al metallic<br>- Al oxide<br>- Al hydroxide<br>- Al phosphate<br>- Al borate<br>- Al hypophosphite<br>- Al magnesium silicate<br>- Al oxalate | 7429-90-5<br>1344-28-1<br>21645-51-2<br>7784-30-7<br>11121-17-7<br>7784-22-7<br>12511-31-8<br>814-87-9 | lack of appropriate data | lack of appropriate data                                   | lack of appropriate data              | 2009                |
| Aluminium:<br><br>- Al chloride (anhydrous or hexahydrate form)<br>- Al nitrate<br>- Al lactate<br>- Al sulphate  | 7446-70-0 (anhydrous)<br><br>10124-27-3<br>(hexahydrate)<br>13473-90-0<br>18917-91-4<br>10043-01-3     | lack of appropriate data | 1B   | may cause harm to breast-fed children | 2009                |
| Ammonia   | 7664-41-7  | lack of appropriate data | lack of appropriate data                                   | lack of appropriate data              | 2009                |
| Ascorbic acid   | 50-81-7  | lack of appropriate data | lack of appropriate human data, and sufficient animal data | lack of appropriate data              | 2009                |
| <i>B</i>  |  |                          |  |                                       |                     |
| Boric acid  | 10043-35-3   | 1B                       | insufficient data  | not evaluated                         | 1998                |
| <i>C</i>  |  |                          |  |                                       |                     |
| Cadmium and its compounds   | -  | 2                        | 2  | may cause harm to breast-fed children | 2000                |

<sup>a</sup> Up to 2008 another system of classification was used. In this table, the recommended categories of substances, which were classified before that period, are translated to categories of the current system.

| Substance name                          | CAS number             | Fertility  | Development <sup>a</sup>                                   | Lactation                             | Year of publication |
|---|------------------------|--|--|---------------------------------------|---------------------|
| Chloroform                              | 67-66-3                | lack of appropriate data                                   | 1B   | lack of appropriate data              | 2000                |
| Cadmium and selected cadmium compounds: |                        | 1B   | 1B   | may cause harm to breast-fed children | 2020                |
| - Cadmium metallic                      | 7440-43-9              |  |  |                                       |                     |
| - Cadmium carbonate                     | 513-78-0               |  |  |                                       |                     |
| - Cadmium chloride                      | 10108-64-2             |  |  |                                       |                     |
| - Cadmium fluoride                      | 7790-79-6              |  |  |                                       |                     |
| - Cadmium hydroxide                     | 21041-95-2             |  |  |                                       |                     |
| - Cadmium nitrate                       | 10022-68-1, 10325-94-7 |  |  |                                       |                     |
| - Cadmium oxide                         | 1306-19-0              |  |  |                                       |                     |
| - Cadmium sulphate                      | 10124-36-4             |  |  |                                       |                     |
| - Cadmium sulphide                      | 1306-23-6              |  |  |                                       |                     |
| Chloramphenicol                         | 56-75-7                | lack of appropriate data                                   | 1B   | lack of appropriate data              | 2012                |
| β-Chloroprene                           | 126-99-8               | lack of appropriate human data, and sufficient animal data | lack of appropriate human data, and sufficient animal data | lack of appropriate data              | 2003                |
| Chlorpromazine                          | 50-53-3                | 1B   | 1B   | lack of appropriate data              | 2015                |
| Copper sulphate                         | 7758-98-7              | lack of appropriate human data, and sufficient animal data | 2  | not evaluated                         | 1999                |
| Cortisone                               | 53-06-5                | lack of appropriate data                                   | 1B   | lack of appropriate data              | 2013                |
| Chromium VI and its compounds           | -                      | 2  | 1B   | lack of appropriate data              | 2000                |
| Chromium VI compounds:                  |                        | 1B   | 1B   | May cause harm to breastfed babies    | 2016                |
| - Chromium trioxide                     | 1333-82-0              |  |  |                                       |                     |
| - Sodium chromate                       | 3-11-7775              |  |  |                                       |                     |
| - Sodium dichromate                     | 10588-01-9             |  |  |                                       |                     |
| - Potassium dichromate                  | 7778-50-9              |  |  |                                       |                     |
| - Chromic acid                          | 7738-94-5              |  |  |                                       |                     |
| - Ammonium chromate                     | 7788-98-9              |  |  |                                       |                     |
| - Ammonium dichromate                   | 5-9-7789               |  |  |                                       |                     |
| - Calcium chromate                      | 13765-19-0             |  |  |                                       |                     |

| Substance name                     | CAS number | Fertility  | Development <sup>a</sup>                                   | Lactation                             | Year of publication |
|------------------------------------|------------|--|--|---------------------------------------|---------------------|
| - Potassium chromate               | 7789-00-6  |  |  |                                       |                     |
| - Dichromium tris(chromate)        | 24613-89-6 |  |  |                                       |                     |
| Cyclohexanol                       | 108-93-0   | 2  | lack of appropriate data                                   | lack of appropriate data              | 2004                |
| Cytarabine                         | 147-94-4   | lack of appropriate data                                   | 1B   | lack of appropriate data              | 2015                |
| <i>D</i>                           |            |  |  |                                       |                     |
| Dexamethasone                      | 50-02-2    | Lack of appropriate data                                   | 1B   | Lack of appropriate data              | 2016                |
| 1,2-Dichloropropane                | 78-87-5    | lack of appropriate data                                   | sufficient data for no effect                              | not evaluated                         | 1998                |
| Diethyleneglycol (mono)alkylethers | 111-77-3   | lack of appropriate human data, and sufficient animal data | 1B   | lack of appropriate data              | 2003                |
| <i>E</i>                           |            |  |  |                                       |                     |
| Enflurane                          | 13838-16-9 | lack of appropriate data                                   | lack of appropriate human data, and sufficient animal data | lack of appropriate data              | 2002                |
| Ethanol                            | 64-17-5    | 1A   | 1A   | may cause harm to breast-fed children | 2000                |
| Ethylene oxide                     | 75-21-8    | 1B   | lack of appropriate data                                   | lack of appropriate data              | 2001                |
| Ethyl methanesulphonate            | 62-50-0    | 1B   | 2  | lack of appropriate data              | 2004                |
| <i>F</i>                           |            |  |  |                                       |                     |
| N-Fluoren-2-ylacetamide            | 53-96-3    | lack of appropriate data                                   | lack of appropriate data                                   | may cause harm to breast-fed children | 2011                |
| Formic acid                        | 64-18-6    | lack of appropriate data                                   | lack of appropriate data                                   | lack of appropriate data              | 2006                |
| <i>G</i>                           |            |  |  |                                       |                     |
| -                                  | -          | -  | -  | -                                     | -                   |
| <i>H</i>                           |            |  |  |                                       |                     |
| Halothane                          | 151-67-7   | lack of appropriate data                                   | 2  | lack of appropriate data              | 2000                |
|                                    |            |  |  |                                       |                     |
| Hexachlorophene                    | 70-30-4    | lack of appropriate human data, and sufficient animal data | 2  | lack of appropriate data              | 2011                |

| Substance name              | CAS number | Fertility  | Development <sup>a</sup>                                   | Lactation                             | Year of publication |
|-----------------------------|------------|--|--|---------------------------------------|---------------------|
| Hydrogen fluoride           | 7664-39-3  | lack of appropriate human data, and sufficient animal data | lack of appropriate human data, and sufficient animal data | sufficient human data for no effect   | 2009                |
| Sodium fluoride             | 7681-49-4  |  |  |                                       |                     |
| Hydroxyurea                 | 127-07-1   | 1B   | 1B   | lack of appropriate data              | 2014                |
| <i>I</i>                    |            |  |  |                                       |                     |
| Ifosfamide                  | 3778-73-2  | 1B   | 1B   | lack of appropriate data              | 2014                |
| Indium                      | 7440-74-6  | 2  | lack of appropriate data                                   | lack of appropriate data              | 2012                |
| Indium phosphide            | 22398-80-7 |  |  |                                       |                     |
| Indium arsenide             | 1303-11-3  |  |  |                                       |                     |
| Indium oxide                | 1312-43-2  |  |  |                                       |                     |
| Indium trichloride          | 10025-82-8 | lack of appropriate data                                   | 1B   | lack of appropriate data              | 2012                |
| Indium nitrate              | 13465-14-0 |  |  |                                       |                     |
| Indium sulfate              | 13464-82-9 |  |  |                                       |                     |
| Isoflurane                  | 26675-46-7 | lack of appropriate data                                   | lack of appropriate human data, and sufficient animal data | lack of appropriate data              | 2002                |
| Isopropyl methanesulphonate | 926-06-7   | 2  | 2  | lack of appropriate data              | 2004                |
| <i>J</i>                    |            |  |  |                                       |                     |
| -                           | -          | -  | -  | -                                     | -                   |
| <i>K</i>                    |            |  |  |                                       |                     |
| -                           | -          | -  | -  | -                                     | -                   |
| <i>L</i>                    |            |  |  |                                       |                     |
|                             |            |  |  |                                       |                     |
| Lead, metallic              | 7439-92-1  | 2  | 1A   | may cause harm to breast-fed children | 2003                |
| Lithium carbonate           | 554-13-2   | 2  | 1A   | may cause harm to breast-fed children | 2000                |
| Lithium chloride            | 7447-41-8  | 2  | 1A   | may cause harm to breast-fed children | 2000                |

| Substance name   | CAS number               | Fertility                                    | Development <sup>a</sup>                             | Lactation                             | Year of publication |
|--|--------------------------|--|--|---------------------------------------|---------------------|
| <i>M</i>   |                          |  |  |                                       |                     |
| Manganese and its compounds                            | -                        | 2  | 2  | sufficient data                       | 2001                |
| Mercury, metallic                                      | 7439-97-6                | lack of appropriate data                     | 1B   | lack of appropriate data              | 2000                |
| Mercury salts  | 7487-94-7                | lack of appropriate data                     | lack of appropriate data                             | lack of appropriate data              | 2000                |
| Methanol   | 67-56-1                  | lack of appropriate data                     | 1B   | lack of appropriate data              | 2006                |
| Methotrexate   | 59-05-2                  | 2  | 1A   | lack of appropriate data              | 2011                |
| Methylchloride   | 74-87-3                  | 1B   | lack of appropriate data                             | lack of appropriate data              | 2004                |
| 3-Methylcholan-threne                                  | 56-49-5                  | 2  | 1B   | may cause harm to breast-fed children | 2014                |
| Methyl mercury   | 22967-92-6               | lack of appropriate data                     | 1A   | may cause harm to breast-fed children | 2000                |
| <i>N</i>   |                          |  |  |                                       |                     |
| Molybdenum (metal)                                     | 7439-98-7                | lack of relevant data                        | lack of relevant data                                | lack of relevant data                 | 2025                |
| Molybdenum and selected inorganic molybdenum compounds | -                        | available data do not justify classification | limited available data do not justify classification | lack of relevant data                 | 2025                |
| Nickel carbonyl  | 13463-39-3               | lack of appropriate data                     | 2  | lack of appropriate data              | 2003                |
| Nickel, metallic                                       | 7440-02-0                | lack of appropriate data                     | lack of appropriate data                             | lack of appropriate data              | 2003                |
| Nickel nitrate   | 13138-45-9               | 2  | 1B   | may cause harm to breast-fed children | 2003                |
| Nickel sulphate  | 7786-81-4                |  |  |                                       |                     |
| Nickel chloride  | 7718-54-9                |  |  |                                       |                     |
| Nickel oxide   | 1313-99-1 11099-02-08    | lack of appropriate data                     | lack of appropriate data                             | lack of appropriate data              | 2003                |
| Nickel subsulfide                                      | 34492-97-2<br>12035-72-2 |  |  |                                       |                     |
| Nitrous oxide  | 10024-97-2               | 2  | 2  | lack of appropriate data              | 2000                |
| <i>O</i>   |                          |  |  |                                       |                     |
| -  | -                        | -  | -  | -                                     | -                   |
| <i>P</i>   |                          |  |  |                                       |                     |
| Penicillamine  | 52-67-5                  | lack of appropriate data                     | 1B   | lack of appropriate data              | 2014                |

| Substance name                            | CAS number            | Fertility  | Development <sup>a</sup>      | Lactation                             | Year of publication |
|---|-----------------------|--|-------------------------------|---------------------------------------|---------------------|
| Phenyl mercury acetate                    | 62-38-4               | lack of appropriate data                                   | lack of appropriate data      | lack of appropriate data              | 2000                |
| Phenytoin                                 | 57-41-0               | lack of appropriate data                                   | 1B                            | lack of appropriate data              | 2018                |
| <i>Q</i>                                  |                       |  |                               |                                       |                     |
| -   | -                     | -  | -                             | -                                     | -                   |
| <i>R</i>                                  |                       |  |                               |                                       |                     |
| Ribavirin                                 | 36791-04-5            | lack of appropriate data                                   | 2                             | lack of appropriate data              | 2010                |
| <i>S</i>                                  |                       |  |                               |                                       |                     |
| Selenium and its compounds                | -                     | lack of appropriate data                                   | sufficient data for no effect | may cause harm to breast-fed children | 1999                |
| Styrene                                   | 100-42-5              | lack of appropriate data                                   | lack of appropriate data      | lack of appropriate data              | 2001                |
| <i>T</i>                                  |                       |  |                               |                                       |                     |
| Tellurium                                 | 13494-80-9            | lack of appropriate data                                   | 1B                            | lack of appropriate data              | 2014                |
| Tetrachloroethylene                       | 127-18-4              | lack of appropriate human data, and sufficient animal data | 2                             | lack of appropriate data              | 2003                |
| Theophylline                              | 58-55-9               | lack of appropriate data                                   | 1B                            | lack of appropriate data              | 2013                |
| Tin and selected anorganic tin compounds: |                       | lack of appropriate data                                   | lack of appropriate data      | Not classify                          | 2022                |
| - Tin metallic                            | 7440-31-5             |  |                               |                                       |                     |
| - Tin sulphide                            | 1314-95-0             |  |                               |                                       |                     |
| - Tin oxide                               | 21651-19-4            |  |                               |                                       |                     |
| - Ditin pyrofosphate                      | 15578-26-4            |  |                               |                                       |                     |
| - Tin dichloride                          | 7772-99-8             |  |                               |                                       |                     |
| - Tin difluoride                          | 7783-47-3             |  |                               |                                       |                     |
| - Tin sulphate                            | 7488-55-3             |  |                               |                                       |                     |
| - Tin difluoroborate                      | 13814-97-6            |  |                               |                                       |                     |
| - Tindi sulphide                          | 1315-01-1, 12738-87-3 |  |                               |                                       |                     |
| - Tin dioxide                             | 18282-10-5            |  |                               |                                       |                     |
| Toluene                                   | 108-88-3              | lack of appropriate human data, and sufficient animal data | 2                             | lack of appropriate data              | 2001                |
| Triamcinolone                             | 124-94-7              | lack of appropriate data                                   | 1B                            | lack of appropriate data              | 2013                |

| Substance name          | CAS number | Fertility  | Development <sup>a</sup> | Lactation                  | Year of publication |
|-------------------------|------------|--|--------------------------|----------------------------|---------------------|
| Triamcinolone acetonide | 76-25-5    | lack of appropriate data                                   | 1B                       | lack of appropriate data   | 2013                |
| Trichloroacetic acid    | 76-03-9    | lack of appropriate data                                   | 1B                       | lack of appropriate data   | 2006                |
| Trichloroethylene       | 79-01-6    | lack of appropriate human data, and sufficient animal data | 1B                       | lack of appropriate data   | 2003                |
| <i>U</i>                |            |  |                          |                            |                     |
| Tricresylphosphate      | 1330-78-5  | 2  | Lack of appropriate data | Lack of data               | 2023                |
| Uranium                 | 7440-61-1  | Lack of appropriate data                                   | Lack of appropriate data | Lack of appropriate data   | 2016                |
| Uranyl acetate          | 541-09-3   | Lack of appropriate data                                   | 2                        | Lack of appropriate data   | 2016                |
| Uranyl nitrate          | 10102-06-4 | Lack of appropriate data                                   | 2                        | Lack of appropriate data   | 2016                |
| <i>V</i>                |            |  |                          |                            |                     |
| -                       | -          | -  | -                        | -                          | -                   |
| <i>W</i>                |            |  |                          |                            |                     |
| -                       | -          | -  | -                        | -                          | -                   |
| <i>X</i>                |            |  |                          |                            |                     |
| Xylene                  | 1330-20-7  | lack of appropriate data                                   |                          | 2 lack of appropriate data | 2001                |
| <i>Y</i>                |            |  |                          |                            |                     |
| -                       | -          | -  | -                        | -                          | -                   |
| <i>Z</i>                |            |  |                          |                            |                     |
| -                       | -          | -  | -                        | -                          | -                   |