

**L.N. 57 of 2018**

**OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ACT  
(CAP. 424)**

**Protection of the Health and Safety of Workers from  
the risks related to Chemical Agents at Work (Amendment)  
Regulations, 2018**

IN exercise of the powers conferred by article 12 of the Occupational Health and Safety Authority Act, the Minister for European Affairs and Equality, after consultation with the Occupational Health and Safety Authority, has made the following regulations:-

Citation

S.L. 424.24

Amends  
regulation 1(2)  
of the principal  
regulations.

**1.** The title of these regulations is the Protection of the Health and Safety of Workers from the risks related to Chemical Agents at Work (Amendment) Regulations, 2018, and they shall be read and construed as one with the Protection of the Health and Safety of Workers from the risks related to Chemical Agents at Work Regulations, hereinafter referred to as "the principal regulations".

**2.** Regulation 1(2) of the principal regulations shall be substituted by the following:

"(2) The scope of these regulations is to:

(a) lay down minimum requirements for the protection of workers from risks to their health and safety arising, or likely to arise, from the effects of chemical agents that are present at the workplace or as a result of any work activity involving chemical agents;

(b) implement Directive 2014/27/EU of the European Parliament and of the Council of 26 February 2014 amending Council Directives 92/58/EEC, 92/85/EEC, 94/33/EC, 98/24/EC and Directive 2004/37/EC of the European Parliament and of the Council, in order to align them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;

(c) implement Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/222/EC, 2000/39/EC and 2009/161/EU."

3. Schedule V of the principal regulations shall be substituted by the following:

Substitutes  
Schedule V to  
the principal  
regulations.

**"SCHEDULE V**

**OCCUPATIONAL EXPOSURE LIMIT VALUES**

| EC No <sup>(1)</sup> | CAS No <sup>(2)</sup> | Name of agent                                 | Limit values                         |                       |                                     |                       | Notati<br>on <sup>(3)</sup> |
|----------------------|-----------------------|---|--------------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------|
|                      |                       |   | Eight hours <sup>(4)</sup>           |                       | Short-term <sup>(5)</sup>           |                       |                             |
|                      |                       |   | mg/<br>m <sup>3</sup> <sup>(6)</sup> | ppm<br><sup>(7)</sup> | mg/m <sup>3</sup><br><sup>(6)</sup> | ppm<br><sup>(7)</sup> |                             |
| 200-193-3            | 54-11-5               | Nicotine                                      | 0.5                                  | -                     | -                                   | -                     | skin                        |
| 200-240-8            | 55-63-0               | Glycerol trinitrate                           | 0.095                                | 0.01                  | 0.19                                | 0.02                  | skin                        |
| 200-262-8            | 56-23-5               | Carbon tetrachloride;<br>Tetrachloromethane   | 6.4                                  | 1                     | 32                                  | 5                     | skin                        |
| 200-467-2            | 60-29-7               | Diethylether                                  | 308                                  | 100                   | 616                                 | 200                   | -                           |
| 200-521-5            | 61-82-5               | Amitrole                                      | 0.2                                  | -                     | -                                   | -                     | -                           |
| 200-579-1            | 64-18-6               | Formic acid                                   | 9                                    | 5                     | -                                   | -                     | -                           |
| 200-580-7            | 64-19-7               | Acetic acid                                   | 25                                   | 10                    | 50                                  | 20                    | -                           |
| 200-659-6            | 67-56-1               | Methanol                                      | 260                                  | 200                   | -                                   | -                     | skin                        |
| 200-662-2            | 67-64-1               | Acetone                                       | 1210                                 | 500                   | -                                   | -                     | -                           |
| 200-663-8            | 67-66-3               | Chloroform                                    | 10                                   | 2                     | -                                   | -                     | skin                        |
| 200-679-5            | 68-12-2               | N,N-Dimethylformamide                         | 15                                   | 5                     | 30                                  | 10                    | skin                        |
| 200-756-3            | 71-55-6               | 1,1,1-Trichloroethane                         | 555                                  | 100                   | 1100                                | 200                   | -                           |
| 200-821-6            | 74-90-8               | Hydrogen cyanide (as<br>cyanide)              | 1                                    | 0.9                   | 5                                   | 4.5                   | skin                        |
| 200-830-5            | 75-00-3               | Chloroethane                                  | 268                                  | 100                   | -                                   | -                     | -                           |
| 200-834-7            | 75-04-7               | Ethylamine                                    | 9.4                                  | 5                     | -                                   | -                     | -                           |
| 200-835-2            | 75-05-8               | Acetonitrile                                  | 70                                   | 40                    | -                                   | -                     | skin                        |
| 200-838-9            | 75-09-2               | Methylene chloride;<br>Dichloromethane        | 353                                  | 100                   | 706                                 | 200                   | skin                        |
| 200-843-6            | 75-15-0               | Carbon disulphide                             | 15                                   | 5                     | -                                   | -                     | skin                        |
| 200-863-5            | 75-34-3               | 1,1-Dichloroethane                            | 412                                  | 100                   | -                                   | -                     | skin                        |
| 200-864-0            | 75-35-4               | Vinylidene chloride; 1,1-<br>Dichloroethylene | 8                                    | 2                     | 20                                  | 5                     | -                           |
| 200-870-3            | 75-44-5               | Phosgene                                      | 0.08                                 | 0.02                  | 0.4                                 | 0.1                   | -                           |
| 200-871-9            | 75-45-6               | Chlorodifluoromethane                         | 3600                                 | 1000                  | -                                   | -                     | -                           |
| 201-083-8            | 78-10-4               | Tetraethyl orthosilicate                      | 44                                   | 5                     | -                                   | -                     | -                           |
| 201-142-8            | 78-78-4               | Isopentane                                    | 3000                                 | 1000                  | -                                   | -                     | -                           |
| 201-159-0            | 78-93-3               | Butanone                                      | 600                                  | 200                   | 900                                 | 300                   | -                           |
| 201-176-3            | 79-09-4               | Propionic acid                                | 31                                   | 10                    | 62                                  | 20                    | -                           |
| 201-177-9            | 79-10-7               | Acrylic acid; Prop-2-enoic<br>acid            | 29                                   | 10                    | 59 <sup>(8)</sup>                   | 20 <sup>(8)</sup>     | -                           |
| 201-188-9            | 79-24-3               | Nitroethane                                   | 62                                   | 20                    | 312                                 | 100                   | skin                        |
| 201-245-8            | 80-05-7               | Bisphenol A; 4,4'-<br>Isopropylidenediphenol  | 2 <sup>(9)</sup>                     | -                     | -                                   | -                     | -                           |
| 201-297-1            | 80-62-6               | Methyl methacrylate                           | -                                    | 50                    | -                                   | 100                   | -                           |

|           |          |  |      |      |      |      |      |
|-----------|----------|--|------|------|------|------|------|
| 201-865-9 | 88-89-1  | Picric acid                                    | 0.1  | -    | -    | -    | -    |
| 202-049-5 | 91-20-3  | Naphtalene                                     | 50   | 10   | -    | -    | -    |
| 202-422-2 | 95-47-6  | <i>o</i> -Xylene                               | 221  | 50   | 442  | 100  | skin |
| 202-425-9 | 95-50-1  | 1,2-Dichlorobenzene                            | 122  | 20   | 306  | 50   | skin |
| 202-436-9 | 95-63-6  | 1,2,4-Trimethylbenzene                         | 100  | 20   | -    | -    | -    |
| 202-500-6 | 96-33-3  | Methyl acrylate                                | 18   | 5    | 36   | 10   | -    |
| 202-704-5 | 98-82-8  | Cumene   | 100  | 20   | 250  | 50   | skin |
| 202-705-0 | 98-83-9  | 2-Phenylpropene                                | 246  | 50   | 492  | 100  | -    |
| 202-716-0 | 98-95-3  | Nitrobenzene                                   | 1    | 0.2  | -    | -    | skin |
| 202-849-4 | 100-41-4 | Ethylbenzene                                   | 442  | 100  | 884  | 200  | skin |
| 202-981-2 | 101-84-8 | Diphenyl ether                                 | 7    | 1    | 14   | 2    | -    |
| 203-234-3 | 104-76-7 | 2-Ethylhexan-1-ol                              | 5.4  | 1    | -    | -    | -    |
| 203-313-2 | 105-60-2 | $\epsilon$ -Caprolactam (dust and vapour)      | 10   | -    | 40   | -    | -    |
| 203-388-1 | 106-35-4 | Heptan-3-one                                   | 95   | 20   | -    | -    | -    |
| 203-396-5 | 106-42-3 | <i>p</i> -Xylene                               | 221  | 50   | 442  | 100  | skin |
| 203-400-5 | 106-46-7 | 1,4-Dichlorobenzene; <i>p</i> -Dichlorobenzene | 12   | 2    | 60   | 10   | skin |
| 203-453-4 | 107-02-8 | Acrolein; Acrylaldehyde; Prop-2-enal           | 0.05 | 0.02 | 0.12 | 0.05 | -    |
| 203-470-7 | 107-18-6 | Allyl alcohol                                  | 4.8  | 2    | 12.1 | 5    | skin |
| 203-473-3 | 107-21-1 | Ethylene glycol                                | 52   | 20   | 104  | 40   | skin |
| 203-481-7 | 107-31-3 | Methyl formate                                 | 125  | 50   | 250  | 100  | skin |
| 203-539-1 | 107-98-2 | 1-Methoxy-2-propanol                           | 375  | 100  | 568  | 150  | skin |
| 203-545-4 | 108-05-4 | Vinyl acetate                                  | 17.6 | 5    | 35.2 | 10   | skin |
| 203-550-1 | 108-10-1 | 4-Methylpentan-2-one                           | 83   | 20   | 208  | 50   | -    |
| 203-576-3 | 108-38-3 | <i>m</i> -Xylene                               | 221  | 50   | 442  | 100  | skin |
| 203-585-2 | 108-46-3 | Resorcinol                                     | 45   | 10   | -    | -    | skin |
| 203-603-9 | 108-65-6 | 2-Methoxy-1-methylethyl acetate                | 275  | 50   | 550  | 100  | skin |
| 203-604-4 | 108-67-8 | Mesitylene (Trimethylbenzes)                   | 100  | 20   | -    | -    | -    |
| 203-625-9 | 108-88-3 | Toluene  | 192  | 50   | 384  | 100  | skin |
| 203-628-5 | 108-90-7 | Monochlorobenzene                              | 23   | 5    | 70   | 15   | -    |
| 203-631-1 | 108-94-1 | Cyclohexanone                                  | 40.8 | 10   | 81.6 | 20   | skin |
| 203-632-7 | 108-95-2 | Phenol   | 8    | 2    | 16   | 4    | skin |
| 203-692-4 | 109-66-0 | Pentane  | 3000 | 1000 | -    | -    | -    |
| 203-713-7 | 109-86-4 | 2-Methoxyethanol                               | -    | 1    | -    | -    | skin |
| 203-716-3 | 109-89-7 | Diethylamine                                   | 15   | 5    | 30   | 10   | -    |
| 203-726-8 | 109-99-9 | Tetrahydrofuran                                | 150  | 50   | 300  | 100  | skin |
| 203-737-8 | 110-12-3 | 5-Methylhexan-2-one                            | 95   | 20   | -    | -    | -    |
| 203-767-1 | 110-43-0 | Heptan-2-one                                   | 238  | 50   | 475  | 100  | skin |
| 203-772-9 | 110-49-6 | 2-Methoxyethyl acetate                         | -    | 1    | -    | -    | skin |
| 203-777-6 | 110-54-3 | n-Hexane                                       | 72   | 20   | -    | -    | -    |
| 203-788-6 | 110-65-6 | But-2-yne-1,4-diol                             | 0.5  | -    | -    | -    | -    |
| 203-804-1 | 110-80-5 | 2-Ethoxyethanol                                | 8    | 2    | -    | -    | skin |
| 203-806-2 | 110-82-7 | Cyclohexane                                    | 700  | 200  | -    | -    | -    |

|           |           |                                |                   |      |                   |      |      |
|-----------|-----------|--------------------------------|-------------------|------|-------------------|------|------|
| 203-808-3 | 110-85-0  | Piperazine                     | 0.1               | -    | 0.3               | -    | -    |
| 203-809-9 | 110-86-1  | Pyridine                       | 15                | 5    | -                 | -    | -    |
| 203-815-1 | 110-91-8  | Morpholine                     | 36                | 10   | 72                | 20   | -    |
| 203-839-2 | 111-15-9  | 2-Ethoxyethyl acetate          | 11                | 2    | -                 | -    | skin |
| 203-905-0 | 111-76-2  | 2-Butoxyethanol                | 98                | 20   | 246               | 50   | skin |
| 203-906-6 | 111-77-3  | 2-(2-Methoxyethoxy)ethanol     | 50.1              | 10   | -                 | -    | skin |
| 203-933-3 | 112-07-2  | 2-Butoxyethyl acetate          | 133               | 20   | 333               | 50   | skin |
| 203-961-6 | 112-34-5  | 2-(2-Butoxyethoxy)ethanol      | 67.5              | 10   | 101.2             | 15   | -    |
| 204-065-8 | 115-10-6  | Dimethylether                  | 1920              | 1000 | -                 | -    | -    |
| 204-428-0 | 120-82-1  | 1,2,4-Trichlorobenzene         | 15.1              | 2    | 37.8              | 5    | skin |
| 204-469-4 | 121-44-8  | Triethylamine                  | 8.4               | 2    | 12.6              | 3    | skin |
| 204-661-8 | 123-91-1  | 1,4-Dioxane                    | 73                | 20   | -                 | -    | -    |
| 204-662-3 | 123-92-2  | Isopentylacetate               | 270               | 50   | 540               | 100  | -    |
| 204-696-9 | 124-38-9  | Carbon dioxide                 | 9000              | 5000 | -                 | -    | -    |
| 204-697-4 | 124-40-3  | Dimethylamine                  | 3.8               | 2    | 9.4               | 5    | -    |
| 204-825-9 | 127-18-4  | Tetrachloroethylene            | 138               | 20   | 275               | 40   | skin |
| 204-826-4 | 127-19-5  | N,N-Dimethylacetamide          | 36                | 10   | 72                | 20   | skin |
| 205-438-8 | 140-88-5  | Ethyl acrylate                 | 21                | 5    | 42                | 10   | -    |
| 205-480-7 | 141-32-2  | n-Butyl acrylate               | 11                | 2    | 53                | 10   | -    |
| 205-483-3 | 141-43-5  | 2-Aminoethanol                 | 2.5               | 1    | 7.6               | 3    | skin |
| 205-500-4 | 141-78-6  | Ethyl acetate                  | 734               | 200  | 1468              | 400  | -    |
| 205-563-8 | 142-82-5  | n-Heptane                      | 2085              | 500  | -                 | -    | -    |
| 205-599-4 | 143-33-9  | Sodium cyanide (as cyanide)    | 1                 | -    | 5                 | -    | skin |
| 205-634-3 | 144-62-7  | Oxalic acid                    | 1                 | -    | -                 | -    | -    |
| 205-792-3 | 151-50-8  | Potassium cyanide (as cyanide) | 1                 | -    | 5                 | -    | skin |
| 206-992-3 | 420-04-2  | Cyanamide                      | 1                 | 0.58 | -                 | -    | skin |
| 207-069-8 | 431-03-8  | Diacetyl; Butanedione          | 0.07              | 0.02 | 0.36              | 0.1  | -    |
| 207-343-7 | 463-82-1  | Neopentane                     | 3000              | 1000 | -                 | -    | -    |
| 208-394-8 | 526-73-8  | 1,2,3-Trimethylbenzene         | 100               | 20   | -                 | -    | -    |
| 208-793-7 | 541-85-5  | 5-Methylheptan-3-one           | 53                | 10   | 107               | 20   | -    |
| 210-866-3 | 624-83-9  | Methyl isocyanate              | -                 | -    | -                 | 0.02 | -    |
| 210-946-8 | 626-38-0  | 1-Methylbutyl acetate          | 270               | 50   | 540               | 100  | -    |
| 211-047-3 | 628-63-7  | Pentyl acetate                 | 270               | 50   | 540               | 100  | -    |
| 211-128-3 | 630-08-0  | Carbon monoxide                | 23                | 20   | 117               | 100  | -    |
| 212-828-1 | 872-50-4  | n-Methyl-2-pyrrolidone         | 40                | 10   | 80                | 20   | skin |
| 215-137-3 | 1305-62-0 | Calcium dihydroxide            | 1 <sup>(10)</sup> | -    | 4 <sup>(10)</sup> | -    | -    |
| 215-138-9 | 1305-78-8 | Calcium oxide                  | 1 <sup>(10)</sup> | -    | 4 <sup>(10)</sup> | -    | -    |
| 215-236-1 | 1314-56-3 | Diphosphorus pentaoxide        | 1                 | -    | -                 | -    | -    |
| 215-242-4 | 1314-80-3 | Diphosphorus pentasulphide     | 1                 | -    | -                 | -    | -    |
| 215-293-2 | 1319-77-3 | Cresols (all isomers)          | 22                | 5    | -                 | -    | -    |
| 215-535-7 | 1330-20-7 | Xylene, mixed isomers, pure    | 221               | 50   | 442               | 100  | skin |
| 216-653-1 | 1634-04-4 | Tert-Butyl methyl ether        | 183.5             | 50   | 367               | 100  | -    |
| 222-995-2 | 3689-24-5 | Sulphotep                      | 0.1               | -    | -                 | -    | skin |
| 231-116-1 | 7440-06-4 | Platinum (metallic)            | 1                 | -    | -                 | -    | -    |

|           |            |  |  |      |                     |      |      |
|-----------|------------|--|--|------|---------------------|------|------|
| 231-131-3 | 7440-22-4  | Silver, metallic   | 0.1  | -    | -                   | -    | -    |
| 231-131-3 |            | Silver (soluble compounds as Ag)   | 0.01                                       | -    | -                   | -    | -    |
| 231-195-2 | 7446-09-5  | Sulphur dioxide  | 1.3  | 0.5  | 2.7                 | 1    | -    |
| 231-484-3 | 7580-67-8  | Lithium hydride  | -  | -    | 0.02 <sup>(9)</sup> | -    | -    |
| 231-595-7 | 7647-01-0  | Hydrogen chloride  | 8  | 5    | 15                  | 10   | -    |
| 231-633-2 | 7664-38-2  | Orthophosphoric acid   | 1  | -    | 2                   | -    | -    |
| 231-634-8 | 7664-39-3  | Hydrogen fluoride  | 1.5  | 1.8  | 2.5                 | 3    | -    |
| 231-635-3 | 7664-41-7  | Ammonia, anhydrous   | 14   | 20   | 36                  | 50   | -    |
| 231-639-5 | 7664-93-9  | Sulphuric acid mist <sup>(11)</sup> <sup>(12)</sup>  | 0.05                                       | -    | -                   | -    | -    |
| 231-714-2 | 7697-37-2  | Nitric acid  | -  | -    | 2.6                 | 1    | -    |
| 231-778-1 | 7726-95-6  | Bromine  | 0.7  | 0.1  | -                   | -    | -    |
| 231-954-8 | 7782-41-4  | Fluorine   | 1.58                                       | 1    | 3.16                | 2    | -    |
| 231-959-5 | 7782-50-5  | Chlorine   | -  | -    | 1.5                 | 0.5  | -    |
| 231-977-3 | 7783-06-4  | Hydrogen sulphide  | 7  | 5    | 14                  | 10   | -    |
| 231-978-9 | 7783-07-5  | Dihydrogen selenide  | 0.07                                       | 0.02 | 0.17                | 0.05 | -    |
| 232-260-8 | 7803-51-2  | Phosphine  | 0.14                                       | 0.1  | 0.28                | 0.2  | -    |
| 232-319-8 | 8003-34-7  | Pyrethrum (purified of sensitising lactones)   | 1  | -    | -                   | -    | -    |
| 233-060-3 | 10026-13-8 | Phosphorus pentachloride   | 1  | -    | -                   | -    | -    |
| 233-113-0 | 10035-10-6 | Hydrogen bromide   | -  | -    | 6.7                 | 2    | -    |
| 233-271-0 | 10102-43-9 | Nitrogen monoxide <sup>(13)</sup>  | 2.5  | 2    | -                   | -    | -    |
| 233-272-6 | 10102-44-0 | Nitrogen dioxide   | 0.96                                       | 0.5  | 1.91                | 1    | -    |
| 247-852-1 | 26628-22-8 | Sodium azide   | 0.1  | -    | 0.3                 | -    | skin |
| 252-104-2 | 34590-94-8 | (2-Methoxy-methylethoxy)-propanol  | 308  | 50   | -                   | -    | skin |
| 262-967-7 | 61788-32-7 | Terphenyl, hydrogenated  | 19   | 2    | 48                  | 5    | -    |
|           | 620-11-1   | 3-Pentylacetate  | 270  | 50   | 540                 | 100  | -    |
|           | 625-16-1   | Amylacetate, tert  | 270  | 50   | 540                 | 100  | -    |
|           |            | Fluorides, inorganic   | 2.5  | -    | -                   | -    | -    |
|           |            | Barium (soluble compounds as Ba)   | 0.5  | -    | -                   | -    | -    |
|           |            | Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)                                   | 2  | -    | -                   | -    | -    |
|           |            | Tin (inorganic compounds as Sn)  | 2  | -    | -                   | -    | -    |
|           |            | Mercury and divalent inorganic mercury compounds including mercuric oxides and mercuric chloride (measured as mercury) <sup>(14)</sup> | 0.02                                       |      |                     |      |      |
|           |            | Manganese and inorganic manganese compounds (as manganese)   | 0.2 <sup>(9)</sup><br>0.05 <sup>(10)</sup> |      |                     |      |      |

- (<sup>1</sup>) EC No: European Community (EC) number, the numerical identifier for substances within the European Union.
- (<sup>2</sup>) CAS No: Chemical Abstract Service Registry Number.
- (<sup>3</sup>) A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.
- (<sup>4</sup>) Measured or calculated in relation to a reference period of eight-hours as a time-weighted average.
- (<sup>5</sup>) Short-term exposure limit (STEL). A limit value above which exposure should not occur and is related to a 15-minute period, unless otherwise specified.
- (<sup>6</sup>)  $\text{mg/m}^3$  : milligrams per cubic metre of air at 20 °C and 101.3 KPa.
- (<sup>7</sup>) ppm: parts per million by volume in air ( $\text{ml/m}^3$ ).
- (<sup>8</sup>) Short-term exposure limit value in relation to a reference period of 1 minute.
- (<sup>9</sup>) Inhalable fraction
- (<sup>10</sup>) Respirable fraction.
- (<sup>11</sup>) When selecting an appropriate exposure monitoring method , account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds.
- (<sup>12</sup>) The mist is defined as the thoracic fraction.
- (<sup>13</sup>) Established in accordance with the Annex to Directive 91/322/EEC.
- (<sup>14</sup>) During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV."

