

# Factories

**1956-12**

**Subsidiary  
2003/035**

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

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Regulations made under ss.58 and 81.

**FACTORIES (CONTROL OF CHEMICAL AGENTS AT  
WORK) REGULATIONS 2003**

**(LN. 2003/035)**

**20.3.2003**

| Amending<br>enactments | Relevant current<br>provisions | Commencement<br>date |
|------------------------|--------------------------------|----------------------|
| LN. 2008/035           | Sch. 1                         | 8.5.2008             |
| 2008/050               | Sch. 1                         | 19.6.2008            |
| 2012/021               | Sch. 1                         | 1.3.2012             |
| 2015/143               | rr. 2(1), 5(2)(b), 10(1)(d)    | 4.9.2015             |

**Transposing:**

Directive 98/24/EC

Directive 2000/39/EC

Directive 2009/161/EU

**Implementing:**

Directive 2014/27/EU

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

**ARRANGEMENT OF REGULATIONS.**

Regulation

1. Title.
2. Interpretation.
3. Duties under these regulations.
4. Occupational exposure limit values, biological limit values and prohibitions.
5. Determination and assessment of risk of hazardous chemical agents.
6. General principles for the prevention of risks associated with hazardous chemical agents.
7. Specific protection and prevention measures.
8. Hazards arising from the physico-chemical properties of chemical agents.
9. Arrangements to deal with accidents, incidents and emergencies.
10. Information and training for employees.
11. Health surveillance.
12. Exemption certificates.
13. Revocation.

**SCHEDULE 1**  
**OCCUPATIONAL EXPOSURE LIMIT VALUES**

**SCHEDULE 2**  
**BIOLOGICAL LIMIT VALUES AND HEALTH SURVEILLANCE  
MEASURES**

**SCHEDULE 3**  
**PROHIBITIONS**

**SCHEDULE 4**  
**HEADINGS UNDER WHICH PARTICULARS ARE TO BE PROVIDED  
IN HEALTH AND SAFETY DATA SHEETS**

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

*This version is out of date*

*In exercise of the powers conferred on him by sections 58 and 81 of the Factories Act and of all other enabling powers, and for the purposes of transposing into the law of Gibraltar Council Directive 98/24/EC and Commission Directive 2000/39/EC the Governor has made the following regulations—*

**Title.**

1. These Regulations may be cited as the Factories (Control of Chemical Agents at Work) Regulations 2003.

**Interpretation.**

2.(1) In these Regulations, unless the context otherwise requires—

“Biological limit value” means the limit of the concentration in the appropriate biological medium of the relevant agent, its metabolite, or an indicator of effect;

“Chemical agent” means any chemical element or compound, on its own or admixed, as it occurs in the natural state or as produced, used or released, including release as waste, by any work activity, whether or not produced intentionally and whether or not placed on the market;

“Doctor” means a doctor registered under the provisions of the Medical and Health Act 1997;

“Hazard” means the intrinsic property of a chemical agent with the potential to cause harm;

“Hazardous chemical agent” means—

- (i) a chemical agent which meets the criteria for classification as hazardous within any physical or health hazard classes laid down in Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, whether or not that chemical agent is classified under that Regulation;
- (ii) a chemical agent which, whilst not meeting the criteria for classification as hazardous in accordance with

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)**  
**REGULATIONS 2003**

**This version is out of date**

paragraph (i) may, because of its physico-chemical, chemical or toxicological properties and the way it is used or is present in the workplace, present a risk to the safety and health of workers, including any chemical agent that is assigned an occupational exposure limit value under regulation 4;

“Health surveillance” means the assessment of an individual employee to determine the state of health of that individual, as related to exposure to specific chemical agents at work;

“Occupational exposure limit value” means, unless otherwise specified, the limit of the time-weighted average of the concentration of a chemical agent in the air within the breathing zone of a employee in relation to a specified reference period;

“Occupational health care professional” means an occupational health care professional registered under the provisions of the Medical and Health Act 1997;

“Risk” means the likelihood that the potential for harm will be attained under the conditions of use and/or exposure.

(2) In these regulations, “health and safety data sheet” means a sheet containing information under the headings specified in Schedule 4 to enable the recipient of that substance or preparation to take the necessary measures relating to the protection of health and safety at work and relating to the protection of the environment. Health and safety data sheets shall clearly show their date of first publication or latest revision, as the case may be.

**Duties under these regulations.**

3.(1) Where a duty is placed by these regulations on an employer in respect of his employees, he shall, so far as is reasonably practicable, be under a like duty in respect of any other person, whether at work or not, who may be affected by the work carried on by the employer except that—

- (a) the employer shall not be under a duty under these regulations to supply persons who are not his employees with personal protective equipment or appropriate work clothing; and
- (b) the duties of the employer under regulation 9 and 10 (which relate respectively to dealing with accidents and to provision of information and training) shall not extend to persons who are

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

not his employees, unless those persons are at the workplace where the work is being carried on.

(2) These regulations shall apply to a self-employed person as they apply to an employer and an employee.

**Occupational exposure limit values, biological limit values and prohibitions.**

4.(1) Occupational exposure limit values are set out in Schedule 1.

(2) Biological limit values are set out in Schedule 2.

(3) Subject to the following provisions of this regulation, the production, manufacture or use at work of the chemical agents described in Column 1 of Schedule 3 is prohibited to the extent set out in the corresponding entry in Column 2 of Schedule 3.

(4) The Factories Inspector may, on receipt of the information set out in the following sub-regulation, by licence provide that a person may be exempted from the prohibitions set out in the previous sub-regulation in respect of –

- (a) activities carried out for the sole purpose of scientific research and testing, including analysis;
- (b) activities intended to eliminate chemical agents that are present in the form of by-products or waste products;
- (c) the production of the chemical agents described in Column 1 of Schedule 3 for use as intermediates.

(5) A person applying for a licence under the previous sub-regulation must submit the following information–

- (a) the reason for requesting the derogation;
- (b) the quantity of the chemical agent to be used annually;
- (c) the activities and reactions and processes involved;
- (d) the number of employees liable to be involved;

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

- (e) the precautions envisaged to protect the health and safety of employees concerned; and
- (f) the technical and organisational measures taken to protect the exposure of employees.

**Determination and assessment of risk of hazardous chemical agents.**

5.(1) An employer shall not carry out work liable to expose any employees to any hazardous chemical agent unless—

- (a) he has made a suitable and sufficient assessment of the risk created by that work to the health and safety of those employees;
  - (b) he has recorded the findings of that assessment;
  - (c) he has taken the steps which have been identified in that assessment pursuant to these regulations; and
  - (d) the measures required by these regulations have been implemented.
- (2) assessment shall include consideration of—
- (a) the hazardous properties of the hazardous chemical agent;
  - (b) information on safety and health that shall be provided by the supplier (e.g. the relevant safety data sheet in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals);
  - (c) the level, type and duration of exposure;
  - (d) the circumstances of the work, including the amount of the hazardous chemical agent involved;
  - (e) any occupational exposure limit value or biological limit value;
  - (f) the effect of preventive and control measures which have been or will be taken in accordance with regulations 6 and 7;

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

This version is out of date

- (g) the results of relevant health surveillance;
  - (h) the results of monitoring of exposure pursuant to regulation 7(4);
  - (i) activities, such as maintenance, where there is the potential for a high level of exposure, or activities which may result in deleterious effects to safety and health for other reasons;
  - (j) in circumstances where the work will involve exposure to more than one hazardous chemical agent, the risk presented by exposure to such agents in combination; and
  - (k) such additional information as the employer may need in order to complete the assessment.
- (3) The assessment shall be reviewed regularly and, additionally, shall be reviewed as soon as reasonably possible if—
- (a) there is reason to suspect that the assessment is no longer valid; or
  - (b) there has been a significant change in the matters to which the assessment relates including when the workplace, work processes or organisation of the work undergoes significant changes, extensions or conversions; or
  - (c) the results of any monitoring carried out in accordance with regulation 7(4) show it to be necessary,

and where, as a result of the review, changes to the assessment are required, those changes shall be made.

(4) In this regulation, a reference to “the assessment” is a reference to the assessment required by sub-regulation (1)(a) above.

**General principles for the prevention of risks associated with hazardous chemical agents.**

6.(1) An employer shall ensure that the risks to the health and safety of employees at work involving hazardous chemical agents shall be eliminated or reduced to a minimum so far as is reasonably practicable by taking the measures set out in sub-regulation (2) below.

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

(2) In complying with his duty under sub-regulation (1) an employer shall avoid, so far as is reasonably practicable, the presence or use of a hazardous chemical agent at the workplace by replacing it with a substance or process which either eliminates or reduces the risk.

(3) Where it is not reasonably practicable to eliminate risk in accordance with sub-regulation (1) and (2) the employer shall, so far as is reasonably practicable, apply measures appropriate to the nature of the activity or operation—

- (a) making arrangements—
  - (i) for the design and organisation of systems of work at the workplace;
  - (ii) for suitable working procedures including arrangements for the safe handling, storage and transport within the workplace of hazardous chemical agents and waste containing such chemical agents.
- (b) providing—
  - (i) suitable equipment for work with chemical agents; and
  - (ii) maintenance procedures;  
which ensure the health and safety of employees at work;
- (c) reducing to the minimum required for the work concerned—
  - (i) the number of employees exposed or likely to be exposed;
  - (ii) the duration and intensity of exposure; and
  - (iii) the quantity of chemical agents present at the workplace;  
and
- (d) making arrangements for appropriate hygiene measures.

(4) Where the results of the risk assessment referred to in regulation 5(1) show that, because of the quantities of a hazardous chemical agent present in the workplace, there is only a slight risk to the safety and health of employees, and the measures taken in accordance with sub-regulations (2)



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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

This version is out of date

and (3) above are sufficient to reduce significantly that risk, the provisions of regulations 7, 8, 9 and 11 shall not apply.

**Specific protection and prevention measures.**

7.(1) Without prejudice to the obligations set out in the previous regulation, every employer shall ensure that the risk from a hazardous chemical agent to the safety and health of employees at work is eliminated or reduced to a minimum .

(2) In complying with the previous sub-regulation, substitution shall by preference be undertaken, whereby the employer shall avoid, so far as is reasonably practicable, the use of a hazardous chemical agent by replacing it with a chemical agent or process which, under its conditions of use, is not hazardous or is less hazardous to employees' safety and health.

(3) Where taking into account the nature of the activity and having regard to the activity and risk assessment referred to in regulation 5(1) it is not reasonably practicable to eliminate risk by substitution, the employer shall, so far as is reasonably practicable, ensure that the risk is reduced to a minimum by application of appropriate protection and prevention measures which shall include, in order of priority, the following–

- (a) design of appropriate work processes and engineering controls and use of adequate equipment and materials;
- (b) application of collective protection measures at the source of the risk such as adequate ventilation and appropriate organisational measures;
- (c) control of the working environment, including general ventilation;
- (d) where exposure cannot be achieved by other means, application of individual protection measures including personal protective equipment.

(4) The employer shall monitor chemical agents which may present a risk to employees' health at the workplace to the extent necessary unless he clearly demonstrates, by other means of evaluation, that the risk has been reduced to a minimum and adequate prevention and protection has been achieved by adopting the measures set out in the previous sub-regulation.

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)**  
**REGULATIONS 2003**

**This version is out of date**

(5) The monitoring referred to in the previous sub-regulation shall take place—

- (a) at regular intervals; and
- (b) when any change occurs in the conditions which may affect employees' exposure to chemical agents.

(6) Where an occupational exposure limit value has been exceeded, the employer shall immediately take steps, taking into account the nature of that limit, to remedy the situation by carrying out protection and prevention measures.

**Hazards arising from the physico-chemical properties of chemical agents.**

8.(1) On the basis of the assessment referred to in regulation 5 and the general principles for the prevention of risks set out in regulation 6, the employer shall take such technical and organisational measures appropriate to the nature of the operation, including storage, handling and segregation of incompatible chemical agents so as to provide protection for employees against hazards arising from the physico-chemical properties of chemical agents.

(2) Without prejudice to the generality of the foregoing, the employer shall take measures, in order of priority—

- (a) to prevent the presence at the workplace of hazardous concentrations of inflammable substances or hazardous quantities of chemically unstable substances;
- (b) where the nature of the work does not allow measures to be taken under paragraph (a), to prevent—
  - (i) the presence of ignition sources which could give rise to fires and explosions; or
  - (ii) adverse conditions which could cause chemically unstable substances or mixtures of substances to give rise to harmful physical effects; and
- (c) to mitigate—

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

- (i) the detrimental effects to the health and safety of employees in the event of fire or explosion due to the ignition of inflammable substances, or
  - (ii) harmful physical effects arising from chemically unstable substances or mixtures of substances.
- (3) The employer shall–
- (a) take measures to control plant, equipment and machinery sufficiently to ensure that explosions do not take place;
  - (b) provide explosion suppression equipment; or
  - (c) make explosion pressure relief arrangements.

**Arrangements to deal with accidents, incidents and emergencies.**

9.(1) In order to protect the safety and health of employees from an accident, incident or emergency related to the presence of hazardous chemical agents at the workplace, the employer shall–

- (a) establish procedures which can be put into effect when any such event occurs;
- (b) arrange for any safety drills relevant to the procedures referred to in paragraph (a) to be performed at regular intervals;
- (c) provide appropriate first aid facilities;
- (d) ensure that information on emergency arrangements including–
  - (i) details of relevant work hazards and hazard identification arrangements; and
  - (ii) specific hazards likely to arise at the time of an accident, incident or emergency,

is available.

(2) In the event of an accident, incident or emergency related to the presence of hazardous chemical agents at the workplace, the employer shall–

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)**  
**REGULATIONS 2003**

**This version is out of date**

- (a) immediately take steps to—
    - (i) mitigate the effects of the event; and
    - (ii) inform the employees concerned of the event;
  - (b) as soon as possible, implement appropriate measures to remedy the situation.
- (3) The employer shall ensure that in restoring the situation to normal—
- (a) only those employees who are essential to the carrying out of repairs and other necessary work shall be permitted to work in the affected area;
  - (b) the employees who are permitted to work in the affected area shall be provided with and shall use appropriate protective clothing, personal protective equipment and specialised safety equipment and plant.
- (4) The employer shall take immediate steps to ensure the affected area is restored to normal.
- (5) The employer shall take the measures necessary to provide the warning and other communication systems required to—
- (a) signal an increased risk to health and safety arising from the presence of hazardous chemical agents at the workplace; and
  - (b) in the event of an accident, incident or emergency related to the presence of hazardous chemical agents at the workplace—
    - (i) to enable an appropriate response to be made; and
    - (ii) to launch remedial actions, assistance, escape and rescue operations which shall be immediate if the need arises.
- (6) The employer shall ensure that information on the emergency arrangements prepared in accordance with this regulation is made available to the relevant internal and external accident and emergency services so that they can prepare their response procedures and precautionary measures.

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

(7) In this regulation, “affected area” means the area affected by an accident, incident or emergency related to the presence of hazardous chemical agents at the workplace.

(8) This regulation shall not apply where—

- (a) the results of the risk assessment referred to in regulation 4(1) show that, because of the quantities of a hazardous chemical agent present in the workplace, there is only a slight risk to the safety and health of employees, and
- (b) the measures taken in accordance with regulations 6(1) and (2) above are sufficient to reduce significantly that risk.

**Information and training for employees.**

10.(1) Every employer who undertakes work which is liable to expose an employee to a hazardous chemical agent shall ensure that employees or their representatives are provided with—

- (a) the data obtained from the assessment required by regulation 5(1)(a) together with any further data which is obtained whenever a major alteration at the workplace leads to a change in that data;
- (b) information on the hazardous chemical agents occurring in the workplace including—
  - (i) the identity of the agents and the risk they present to safety and health;
  - (ii) any relevant occupational exposure values under any other legislative provision.
- (c) training and information on appropriate precautions and actions to be taken in order for the employees to be able to safeguard themselves and other employees at the workplace; and
- (d) access to any safety data sheet provided by the supplier in accordance with article 31 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

(2) The information and training provided pursuant to the previous sub-regulation shall—

- (a) be provided in a manner appropriate to the outcome of the assessment required by regulation 5(1)(a); and
- (b) updated to take account of changing circumstances.

(3) Where containers and pipes for hazardous chemical agents used at work are not marked in accordance with the provisions of the principal Act on the labelling of chemical agents and on safety signs at the workplace, the employer shall, without prejudice to the derogations provided for in that legislation, ensure that the contents of the containers and pipes, together with the nature of those contents and any associated hazards, are clearly identifiable.

**Health surveillance.**

11.(1) The employer shall ensure that his employees are under appropriate health surveillance where the results of the assessment referred to in regulation 5 reveal a risk to health.

(2) Health surveillance shall be appropriate in respect of an employee where—

- (a) the exposure of the employee to the hazardous chemical agent is such that an identifiable disease or adverse health effect may be related to the exposure;
- (b) there is a likelihood that the disease or effect may occur under the particular conditions of his work;
- (c) there is a valid technique for detecting indications of the disease or effect; and
- (d) the technique of investigation of the disease or effect is of low risk to the employee.

(3) The employer shall ensure that, if his employees work with a hazardous chemical agent for which a binding biological limit has been set—

- (a) they are informed that they will be subject to compulsory health surveillance before being assigned to the task involving risk of exposure to that hazardous chemical agent; and

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

- (b) they are subject to compulsory health surveillance as provided in Schedule 2.
  
- (4) The employer shall ensure that a health and exposure record is made and maintained for each employee who is required to be subject to health surveillance pursuant to this regulation.
  
- (5) The health and exposure record referred to in the previous sub-regulation shall contain a summary of—
  - (a) the results of health surveillance carried out; and
  - (b) any monitoring data representative of the exposure of the individual including any biological monitoring and related requirements.
  
- (6) Health and exposure records shall be kept up to date and shall be—
  - (a) in a suitable form so as to permit consultation at a later date; and
  - (b) for at least 40 years from the date of the last entry made in them.
  
- (7) Health and exposure records shall be made available—
  - (a) on request, to the individual employee to whom they relate;
  - (b) on request, to the Factories Inspector; and
  - (c) where an undertaking ceases to trade, to the Factories Inspector.
  
- (8) The employer shall take the steps set out in the following sub-regulation where, as a result of health surveillance—
  - (a) an employee is found to have an identifiable disease or adverse health effect which is considered by a doctor or occupational health-care professional to be the result of exposure at work to a hazardous chemical agent; or
  - (b) a binding biological limit value is found to have been exceeded.

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)**  
**REGULATIONS 2003**

**This version is out of date**

- (9) The employer shall—
- (a) ensure that a doctor or occupational health-care professional informs the employee of the identifiable disease or adverse health effect concerned and provides him with information and advice regarding any further health surveillance he should undergo;
  - (b) review the assessment made pursuant to regulation 5(1);
  - (c) review the measures provided to eliminate or reduce risk pursuant to regulations 6 and 7;
  - (d) take into account the advice of a doctor or occupational health-care professional or the Factories Inspector in implementing any measures required to eliminate or reduce risk pursuant to regulation 6, including the possibility of assigning the employee to alternative work where there is no risk of further exposure;
  - (e) provide for a review of the health status of any other employee who has been similarly exposed, including a medical examination where such an examination is recommended by a doctor or occupational health-care professional or the Factories Inspector.

(10) Where, for the purpose of carrying out his functions under these Regulations, a doctor requires to inspect any workplace or any record kept for the purposes of these Regulations the employer shall permit him to do so.

(11) Where the results of the risk assessment referred to in regulation 5(1) show that, because of the quantities of a hazardous chemical agent present in the workplace, there is only a slight risk to the safety and health of employees, and the measures taken in accordance with regulation 6(2) and (3) above are sufficient to reduce significantly that risk, the provisions of this regulation shall not apply.

**Exemption certificates.**

12.(1) Subject to sub-regulation (2), the Factories Inspector may, by a certificate in writing, exempt any person or class of persons or any hazardous chemical agent or class of hazardous chemical agent from all or any of the requirements or prohibitions imposed by or under these



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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**This version is out of date**

regulations subject to such conditions as the Factories Inspector may deem appropriate.

(2) The Factories Inspector shall not grant any such exemption unless, having regard to the circumstances of the case, and in particular to—

- (a) the conditions, if any, which he proposes to attach to the exemption; and
- (b) any requirements imposed by or under any enactments which apply to the case,

he is satisfied that the health and safety of persons who are likely to be affected by the exemption will not be prejudiced in consequence of it.

**Revocation.**

13. The Factories (Occupational Exposure Limit Values) Regulations 2002 (Legal Notice 29 of 2002) are revoked.

**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)**  
**REGULATIONS 2003**

**This version is out of date**

**SCHEDULE 1**

regulation 4 (1)

**OCCUPATIONAL EXPOSURE LIMIT VALUES**

| Einecs(1) | CAS(2)   | Name of agent                      | Limit Values          |        |                       |        | Notation(3) |
|-----------|----------|------------------------------------|-----------------------|--------|-----------------------|--------|-------------|
|           |          |                                    | Eight hours(4)        |        | Short-term(5)         |        |             |
|           |          |                                    | mg/m <sup>3</sup> (6) | ppm(7) | mg/m <sup>3</sup> (6) | ppm(7) |             |
| 200-193-3 | 54-11-5  | Nicotine                           | 0,5                   | -      | -                     | -      | Skin        |
| 200-467-2 | 60-29-7  | Diethylether                       | 308                   | 100    | 616                   | 200    | -           |
| 200-579-1 | 64-18-6  | Formic acid                        | 9                     | 5      | -                     | -      | -           |
| 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        |
|           | 68-12-2  | N,N<br>Dimethylformamide           | 15                    | 5      | 30                    | 10     | skin        |
| 200-756-3 | 71-55-6  | 1,1,1-Trichloroethane              | 555                   | 100    | 1110                  | 200    | -           |
| 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        |
| -         | 75-15-0  | Carbon disulphide                  | 15                    | 5      | -                     | -      | skin        |
| 200-863-5 | 75-34-3  | 1,1-Dichloroethane                 | 412                   | 100    | -                     | -      | Skin        |
| 200-870-3 | 75-44-5  | Phosgene                           | 0,08                  | 0,02   | 0,4                   | 0,1    | -           |
| 200-871-9 | 75-45-6  | Chlorodifluoromethane              | 3600                  | 1000   | -                     | -      | -           |
| 201-142-8 | 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     | -           |
| -         | 80-05-7  | Bisphenol A (inhalable<br>dust)    | 10                    | -      | -                     | -      | -           |
| -         | 80-62-6  | Methyl methacrylate                | -                     | 50     | -                     | 100    | -           |
| 202-422-2 | 95-47-6  | o-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     | -                     | -      | -           |
| -         | 96-33-3  | Methylacrylate                     | 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        |
| 203-313-2 | 105-60-2 | ε-Caprolactam (dust<br>and vapour) | 10                    | -      | 40                    | -      | -           |
| 203-388-1 | 106-35-4 | Heptan-3-one                       | 95                    | 20     | -                     | -      | -           |
| 203-396-5 | 106-42-3 | p-Xylene                           | 221                   | 50     | 442                   | 100    | Skin        |
| 203-400-5 | 106-46-7 | 1,4-Dichlorobenzene                | 122                   | 20     | 306                   | 50     | -           |
| 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        |
| 203-539-1 | 107-98-2 | 1-Methoxypropanol-2                | 375                   | 100    | 568                   | 150    | Skin        |
| -         | 108-05-4 | Vinyl acetate                      | 17,6                  | 5      | 35,2                  | 10     | -           |
| 203-550-1 | 108-10-1 | 4-Methylpentan-2-one               | 83                    | 20     | 208                   | 50     | -           |

# Factories

**1956-12**

**Subsidiary  
2003/035**

## FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK) REGULATIONS 2003

This version is out of date

|           |          |                                |      |      |       |      |      |
|-----------|----------|--------------------------------|------|------|-------|------|------|
| 203-576-3 | 108-38-3 | m-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-methylethylacetate | 275  | 50   | 550   | 100  | Skin |
| 203-604-4 | 108-67-8 | Mesitylene (Trimethylbenzenes) | 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 |
|           | 108-95-2 | Phenol                         | 8    | 2    | 16    | 4    | Skin |
| 203-692-4 | 109-66-0 | Pentane                        | 3000 | 1000 | -     | -    | -    |
| -         | 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 |
| -         | 110-49-6 | 2-Methoxyethyl acetate         | -    | 1    | -     | -    | Skin |
| 203-777-6 | 110-54-3 | n-Hexane                       | 72   | 20   | -     | -    | -    |
| -         | 110-80-5 | 2-Ethoxy ethanol               | 8    | 2    | -     | -    | Skin |
| 203-806-2 | 110-82-7 | Cyclohexane                    | 700  | 200  | -     | -    | -    |
| 203-808-3 | 110-85-0 | Piperazine                     | 0,1  | -    | 0,3   | -    | -    |
| 203-815-1 | 110-91-8 | Morpholine                     | 36   | 10   | 72    | 20   | -    |
| -         | 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 |
| -         | 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    | -    |
| 204-826-4 | 127-19-5 | N,N-Dimethylacetamide          | 36   | 10   | 72    | 20   | Skin |
| -         | 140-88-5 | Ethylacrylate                  | 21   | 5    | 42    | 10   | -    |
| 205-480-7 | 141-32-2 | n-Butylacrylate                | 11   | 2    | 53    | 10   | -    |
| 205-483-3 | 141-43-5 | 2-Aminoethanol                 | 2,5  | 1    | 7,6   | 3    | Skin |
| 205-563-8 | 142-82-5 | n-Heptane                      | 2085 | 500  | -     | -    | -    |
| 205-634-3 | 144-62-7 | Oxalic acid                    | 1    | -    | -     | -    | -    |
| 206-992-3 | 420-04-2 | Cyanamide                      | 1    | 0,58 | -     | -    | Skin |
| 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   | -    |
| -         | 624-83-9 | Methylisocyanate               | -    | -    | -     | 0,02 | -    |
| 210-946-8 | 626-38-0 | 1-Methylbutylacetate           | 270  | 50   | 540   | 100  | -    |
| 211-047-3 | 628-63-7 | Pentylacetate                  | 270  | 50   | 540   | 100  | -    |

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

This version is out of date

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|-----------|------------|--|-------|------|------|------|------|
|           | 620-11-1   | 3-Pentylacetate  | 270   | 50   | 540  | 100  | -    |
|           | 625-16-1   | Amylacetate, tert  | 270   | 50   | 540  | 100  | -    |
| -         | 872-50-4   | n-Methyl-2-pyrrolidone   | 40    | 10   | 80   | 20   | Skin |
| 215-236-1 | 1314-56-3  | Diphosphorus pentaoxide  | 1     | -    | -    | -    | -    |
| 215-242-4 | 1314-80-3  | Diphosphorus pentasulphide   | 1     | -    | -    | -    | -    |
| 215-535-7 | 1330-20-7  | Xylene, mixed isomers, pure  | 221   | 50   | 442  | 100  | Skin |
| -         | 1634-04-4  | Tertiary-butyl-methyl ether  | 183,5 | 50   | 367  | 100  | -    |
| 222-995-2 | 3689-24-5  | Sulphotep  | 0,1   | -    | -    | -    | Skin |
| 231-131-3 |            | Silver (soluble compounds as Ag)   | 0,01  | -    | -    | -    | -    |
|           |            | Barium (soluble compounds as Ba)   | 0,5   | -    | -    | -    | -    |
|           |            | Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble) | 2     | -    | -    | -    | -    |
| 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   |       |      |      |      |      |
| -         | 7664-93-9  | Sulphuric acid (mist) <sup>(9)(10)</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  | -    |
| -         | 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  | -    |
|           | 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    | -    |
| 247-852-1 | 26628-22-8 | Sodium azide   | 0,1   | -    | 0,3  | -    | Skin |
| 252-104-2 | 34590-94-8 | (2-Methoxymethylethoxy)-propanol   | 308   | 50   | -    | -    | Skin |
|           |            | Fluorides, inorganic   | 2,5   | -    | -    | -    | -    |
|           |            | Inorganic lead and its compounds   | 0,15  | -    | -    | -    | -    |
| 2 005 807 | 64-19-7    | Acetic acid  | 25    | 10   | -    | -    | -    |
| 2 018 659 | 88-88-1    | Picric acid <sup>(8)</sup>   | 0,1   | -    | -    | -    | -    |
| 2 020 495 | 91-20-3    | Naphtalene   | 50    | 10   | -    | -    | -    |

# Factories

**1956-12**

**Subsidiary  
2003/035**

## FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK) REGULATIONS 2003

This version is out of date

|           |            |   |       |    |   |   |   |
|-----------|------------|---|-------|----|---|---|---|
| 2 038 099 | 110-86-1   | Pyridine <sup>(8)</sup>   | 15    | 5  | - | - | - |
| 2 151 373 | 1305-62-0  | Calcium dihydroxide <sup>(8)</sup>  | 5     | -  | - | - | - |
| 2 152 932 | 1319-77-3  | Cresols (all isomers) <sup>(8)</sup>  | 22    | 5  | - | - | - |
| 2 311 161 | 7440-06-4  | Platinum (metallic) <sup>(8)</sup>  | 1     | -  | - | - | - |
| 2 314 843 | 7580-67-8  | Lithium hydride <sup>(8)</sup>  | 0,025 | -  | - | - | - |
| 2 332 710 | 10102-43-9 | Nitrogen monoxide   | 30    | 25 | - | - | - |
|           |            | Tin (inorganic compounds as Sn) <sup>(8)</sup>  | 2     | -  | - | - | - |
| -         |            | Mercury and divalent inorganic mercury compounds including mercuric oxide and mercuric chloride (measured as mercury) <sup>(11)</sup> | 0,02  | -  | - | - | - |

<sup>(1)</sup> EINECS : European inventory of existing chemical substances

<sup>(2)</sup> CAS : Chemical abstract service registry number

<sup>(3)</sup> A skin notation assigned to the OEL indicates the possibility of significant uptake through the skin

<sup>(4)</sup> Measured or calculated in relation to a reference period of eight hours time weighted average

<sup>(5)</sup> Short-term exposure limit (STEL). A limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

<sup>(6)</sup> mg/m<sup>3</sup> : milligrams per cubic metre of air at 20°C and 101,3 KPa

<sup>(7)</sup> ppm : parts per million by volume in air (ml/m<sup>3</sup>)

<sup>(8)</sup> Existing scientific data on health effects appear to be particularly limited.

<sup>(9)</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>(10)</sup> The mist is defined as the thoracic fraction.

<sup>(11)</sup> During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the IOELV.

**SCHEDULE 2**

regulation 4(2)

**BIOLOGICAL LIMIT VALUES AND HEALTH  
SURVEILLANCE MEASURES**

1. LEAD AND ITS IONIC COMPOUNDS

1.1 Biological monitoring must include measuring the blood-lead level (PbB) using absorption spectrometry or a method giving equivalent results. The binding biological limit value is:

70 µg Pb/100 ml blood

1.2 Medical surveillance is carried out if:

- (a) exposure to a concentration of lead in air is greater than 0,075mg/m<sup>3</sup>, calculated as a time weighted average over 40 hours per week, or
- (b) a blood-lead level greater than 40µg Pb/100 ml blood is measured in individual employees.

1.3 Practical guidelines for biological monitoring and medical surveillance must be developed in accordance with Article 12(2). These must include recommendations of biological indicators (e.g. ALAU, ZPP, ALAD) and biological monitoring strategies.

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

This version is out of date

**SCHEDULE 3**

regulation 4(3)

**PROHIBITIONS**

The production, manufacture or use at work of the chemical agents and activities involving chemical agents set out below are prohibited. The prohibition does not apply if the chemical agent is present in another chemical agent, or as a constituent of waste, provided that its individual concentration therein is less than the limit specified.

## (a) Chemical Agents

| <b>EINECS<br/>No <sup>(1)</sup></b> | <b>CAS<br/>No <sup>(2)</sup></b> | <b>Name of agent</b>          | <b>Concentration<br/>limit<br/>for exemption</b> |
|-------------------------------------|----------------------------------|-------------------------------|--|
| 202-080-4                           | 91-59-8                          | 2-naphthylamine and its salts | 0,1% w/w   |
| 202-177-1                           | 92-67-1                          | 4-aminodiphenyl and its salts | 0,1% w/w   |
| 202-199-1                           | 92-87-5                          | Benzidine and its salts       | 0,1% w/w   |
| 202-204-7                           | 92-93-3                          | 4-nitrodiphenyl               | 0,1% w/w   |

## (b) Work Activities

None

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<sup>(1)</sup> EINECS : European Inventory of Existing Commercial Chemical Substances

<sup>(2)</sup> CAS : Chemical Abstracts Service

**SCHEDULE 4**

regulation 2(2)

**HEADINGS UNDER WHICH PARTICULARS ARE TO BE  
PROVIDED IN HEALTH AND SAFETY DATA SHEETS**

The health and safety data sheet referred to in regulation 2 shall contain so far as is reasonably practicable the following headings:

1. Identification of the substance/preparation and company/undertaking.
2. Composition/information on ingredients.
3. Hazards identification.
4. First-aid measures.
5. Fire-fighting measures.
6. Accidental release measures.
7. Handling and storage.
8. Exposure controls/Personal protection.
9. Physical and chemical properties.
10. Stability and reactivity.
11. Toxicological information.
12. Ecological information.
13. Disposal considerations.
14. Transport information.
15. Regulatory information.
16. Date of first publication or latest revision of the health and safety data sheet, as the case may be.



# Factories

**1956-12**

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**FACTORIES (CONTROL OF CHEMICAL AGENTS AT WORK)  
REGULATIONS 2003**

**Subsidiary  
2003/035**

*This version is out of date*

17. Other information.