DECISION no. 1,218 of September 6, 2006 (*republished*)

regarding the establishment of the minimum safety and health requirements at work to ensure the protection of workers against the risks related to the presence of chemical agents*)

ISSUER • GOVERNMENT OF ROMANIA

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- Government Decision no. 1/2012 for the amendment and completion of Government Decision no. 1,218/2006 regarding the establishment of the minimum safety and health requirements at work to ensure the protection of workers against the risks related to the presence of chemical agents, as well as for the amendment of Government Decision no. 1.093/2006 regarding the establishment of the minimum security and health requirements for the protection of workers against risks related to exposure to carcinogenic or mutagenic agents at the workplace and Government Decision no. 355/2007 regarding the supervision of workers' health, published in the Official Gazette of Romania, Part I, no. 44 of January 19, 2012;

- Government Decision no. 359/2015 for the modification and completion of some normative acts in the field of safety and health at work, published in the Official Gazette of Romania, Part I, no. 374 of May 28, 2015;

- Government Decision no. 584/2018 for the amendment of Government Decision no. 1.218/2006 regarding the establishment of minimum safety and health requirements at work to ensure the protection of workers against risks related to the presence of chemical agents, published in the Official Gazette of Romania, Part I, no. 714 of August 17, 2018;

- Government Decision no. 157/2020 for the amendment of Government Decision no. 1.218/2006 regarding the establishment of minimum safety and health requirements at work to ensure the protection of workers against the risks related to the presence of chemical agents, as well as for the modification and completion of Government Decision no. 1,093/2006 regarding the establishment of the minimum security and health requirements for the protection of workers against risks related to exposure to carcinogenic or mutagenic agents at the workplace, published in the Official Gazette of Romania, Part I, no. 178 of March 4, 2020.

Chapter I
General provisions

Section 1
Regulatory object and scope

Article 1

This decision establishes the minimum requirements for the protection of workers against risks to their safety and health, which originate or may originate from the effects of chemical agents present at the workplace or as a result of any professional activity involving chemical agents.

Article 2

Occupational health and safety law no. 319/2006, with subsequent amendments and additions, applies in its entirety to the entire field provided for in art. 1.

Article 3

For carcinogenic and mutagenic substances present at the workplace, the provisions of this decision apply without prejudice to the provisions more favorable to the safety and health of workers at the workplace and/or specific provisions of Government Decision no. 1.093/2006 regarding the establishment of the minimum security and health requirements for the protection of workers against risks related to exposure to carcinogenic or mutagenic agents at work, republished.

Article 4

(1) The minimum occupational health and safety requirements provided for in this decision are applied in the event that dangerous chemical agents are present or may be present at the workplace, in compliance with the provisions on radiation protection measures applicable to chemical agents, according to the provisions the national legislation transposing the directives adopted in accordance with the Treaty establishing the European Atomic Energy Community.

(2) When transporting dangerous chemical agents, the provisions of this decision are applied in compliance with the provisions more favorable to the protection of the health and safety of workers in the national legislation harmonized with:

a) Directive 2008/68/EC of the European Parliament and the Council of September 24, 2008 regarding the inland transport of dangerous goods, published in the Official Journal of the European Union series L no. 260 of September 30, 2008; from Government Ordinance no. 49/1999 regarding the transport of dangerous goods by rail, approved with amendments by Law no. 788/2001; Government Decision no. 323/2000 regarding the establishment of the composition, attributions and organization and functioning regulations of the Interministerial Committee for the transport of dangerous goods by rail; Order of the Minister of Public Works, Transport and Housing no. 891/2003 for the establishment of rules regarding the transport of dangerous goods by rail; Order of the Minister of Transport, Construction and Tourism no. 2.224/2004 for the establishment of rules regarding the transport of dangerous goods by rail; Government Ordinance no. 7/2005 for the approval of the Regulation on railway transport in Romania, republished, with subsequent amendments; and Order of the Minister of Transport, Construction and Tourism no. 644/2005 for the establishment of rules regarding the transport of dangerous goods by rail;

b) Directive 2002/59 of the European Parliament and of the Council of June 27, 2002 establishing a community monitoring and information system regarding maritime vessel traffic and repealing Council Directive 93/75/EEC , published in the Official Journal of the European Communities series L no. 208 of August 5, 2002; from the Order of the Minister of Transport, Infrastructure and Communications no. 926/2020 regarding mandatory inspections of Ro-Ro passenger ships, as well as high-speed passenger ships operating in regular service; c) from Government Ordinance no. 27/2011 on road transport, with subsequent amendments and additions; Government Ordinance no. 48/1999 regarding the road transport of dangerous goods, approved with amendments by Law no. 122/2002 and by Government Decision no. 1.175/2007 for the approval of the Norms for carrying out the activity of road transport of dangerous goods in Romania;

d) the IMDG code - the international maritime dangerous goods code in force, the IBC Code - the international list of the International Maritime Organization, hereinafter referred to as IMO, with the regulations relating to the construction and equipment of ships carrying dangerous chemical products in bulk and the IGC Code - the international list of the IMO, with the regulations regarding the construction and equipment of ships carrying liquefied gases in bulk;

e) The European Agreement on the international transport of dangerous goods on inland waterways and the Regulation on the internal transport of dangerous substances on the Rhine, as they are included in Community law;

f) the technical instructions for the safe transport of dangerous goods, issued by the International Civil Aviation Organization.

Section 2
Definitions

Article 5

For the purposes of this decision, the terms and expressions below have the following meanings:

1. chemical agent - any element or chemical compound, alone or in a mixture, in a natural or manufactured state, used or released, including in the form of waste, through any professional activity, whether it is produced intentionally or not, whether it is introduced on market or not;

2. dangerous chemical agent:

a) any chemical agent that meets the criteria for classification as dangerous in any of the physical and/or health hazard classes provided for in Regulation (EC) no. 1.272/2008 of the European Parliament and of the Council of December 16, 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, as well as amending Regulation (EC) no. 1.907/2006, published in the Official Journal of the European Union, series L, no. 353 of December 31, 2008, as amended by

its amendments, hereinafter referred to as Regulation no. 1.272/2008, regardless of whether the chemical agent in question is classified or not in accordance with the respective regulation;

b) any chemical agent that, although it does not meet the criteria for classification as dangerous in accordance with the provisions of letter a), may present a risk to the safety and health of workers due to its physico-chemical, chemical or toxicological properties and the way in which it is used or is present in the workplace, including any chemical agent to which a limit value has been assigned of professional exposure according to section 3 of this chapter;

3. activity involving chemical agents - any work process in which chemical agents are used or intended to be used, in any process, including the production, handling, storage, transport or disposal and treatment, or any such work process from which chemical agents result;

4. occupational exposure limit value - unless otherwise specified, the time-weighted average limit of the concentration of a chemical agent in the air of the area where a worker breathes, for a specified reference period, for 8 hours or for a term short of maximum 15 minutes;

5. biological limit value - the concentration limit, in the corresponding biological environment, of the chemical agent and/or its metabolite/metabolites and/or an effect indicator;

6. health surveillance - the medical evaluation of a worker to determine the state of health of that individual, in relation to exposure to specific chemical agents at work;

7. danger - the intrinsic property, with the potential to harm, of a chemical agent;

8. risk - the probability that the potential to harm will produce effects under the conditions of use and/or exposure;

9. breathing area of the worker - a hemispherical area, located at the level of the worker's face, with a radius of 0.3 m, measured from the middle of an imaginary line joining the ears;

10. inhalable fraction = the inhalable fraction - the mass fraction of the total suspended particles in the air that is inhaled through the nose and mouth, particles with an aerodynamic diameter smaller than 100 micrometers;

11. respirable fraction = respirable fraction - the mass fraction of inhaled particles that penetrates to the non-ciliated pathways - alveoli, particles with an aerodynamic diameter smaller than 15 micrometers.

Article 6

The Ministry of Labor and Social Protection informs workers' and employers' organizations about the reference limit values for professional exposure, which are established at the level of the European Commission.

Section 3
Occupational exposure limit values and biological limit values

Article 7

(1) For any chemical agent for which a reference limit value for occupational exposure is established at the European Union level, this value becomes the mandatory national reference value.

(2) For any chemical agent for which a mandatory occupational exposure limit value is established at Community level, this value becomes the national mandatory occupational exposure limit value.

(3) The mandatory national occupational exposure limit values of chemical agents, provided for in para. (1) and (2), reflect the utility factors to ensure the health of workers at work and are provided in annex no. 1 or 4.

Article 8

For any chemical agent for which a mandatory biological limit value is established at the community level, this value becomes a national mandatory limit value.

Article 9

Standardized methods for measuring and evaluating air concentrations at the workplace in relation to occupational exposure limit values are established in accordance with the practical recommendations developed by the European Commission.

Chapter II
Obligations of employers

Section 1
Determination and assessment of the risk involved in hazardous chemical agents

Article 10

(1) In fulfilling its obligation to ensure the health and safety of workers in any activity involving dangerous chemical agents, the employer takes the necessary preventive measures, provided for in art. 7 para. (1)-(3) from Law no. 319/2006, with subsequent amendments and additions, and includes the measures provided for in this decision.

(2) The employer must ensure that the risk to the safety and health of workers in the work process induced by a dangerous chemical agent is eliminated or reduced to a minimum. It is mandatory to observe the occupational exposure limit values to chemical agents in the work environment, provided in annexes no. 1 and 4, as the case may be, respectively of the biological limit values tolerable by workers, provided in annex no. 2, while maintaining the concentrations of chemical agents at the lowest possible level.

(3) The limit values provided in para. (2) represent maximum allowed values.

Article 11

(1) The employer, in fulfilling the obligations established in art. 7 para. (4) and in art. 12 para. (1) from the Occupational Health and Safety Law no. 319/2006, with subsequent amendments and additions, must determine the existence of any hazardous chemical agent at the workplace.

(2) The employer must maintain an inventory/register of the hazardous chemical agents handled in the unit, containing references to the safety data sheets related to the respective hazardous substances and mixtures.

(3) If the presence of dangerous chemical agents is found at the workplace, the employer must evaluate any risk related to the safety and health of workers arising from the presence of said chemical agents, taking into account:

a) their dangerous properties;

b) the information related to security and health that is made available by the supplier, for example, the sheet with corresponding security data, in accordance with Regulation (EC) no. 1,907/2006 of the European Parliament and of the Council of December 18, 2006 regarding the registration, evaluation, authorization and restriction of chemical substances (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing the Regulation (EEC) no. 793/93 of the Council and Regulation (EC) no. 1.488/94 of the Commission, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/CE and 2000/21/EC of the Commission, published in the Official Journal of the European Union, series L 396 of December 30, 2006, as amended by its amendments, hereinafter referred to as Regulation no. 1,907/2006;

c) the level, type and duration of exposure, taking into account all possible routes of exposure;

d) the conditions under which work is carried out in the presence of such agents, including their quantities;

e) occupational exposure limit values or national biological limit values;

f) the effect of the preventive measures taken or to be taken;

g) the conclusions resulting from health surveillance already carried out, when available.

(4) The employer must obtain additional information necessary for risk assessment from the supplier of dangerous chemical agents or from other available sources. If applicable, this information must contain the specific risk assessment for users, established on the basis of the provisions of the applicable national legislation, harmonized with the Community legislation on chemical agents.

Article 12

The employer must be in possession of a risk assessment, in accordance with art. 12 of Law no. 319/2006, with subsequent amendments and additions, and to identify which measures were taken according to art. 10 and 16-23 of this decision.

Article 13

(1) The risk assessment must be accompanied by documents presented in an appropriate form, in accordance with national legislation and practice, and may include a justification by the employer regarding

to the fact that the nature and extent of the risks due to chemical agents do not require another detailed risk assessment.

(2) The risk assessment is updated, in particular, if there have been significant changes due to which the assessment would be exceeded or when the results of the health surveillance make this necessary.

(3) The risk assessment must also include certain activities within the enterprise or unit, such as maintenance, during which a significant risk of exposure is foreseeable or which, for other reasons, may have harmful effects on safety and health, even after all technical measures have been taken.

(4) In the case of activities involving exposure to several dangerous chemical agents, the risk must be assessed based on the risk presented by all these chemical agents in combination.

Article 14

In the case of a new activity involving hazardous chemical agents, the work process must begin only after a risk assessment of that activity has been carried out and after preventive measures identified as necessary have been taken.

Article 15

The practical guidelines detailing the provisions related to risk assessment and the application of preventive measures to reduce them will be developed in accordance with the practical recommendations of the European Commission.

Section 2
Principles for the prevention of risks associated with dangerous chemical agents and for the application of this decision according to the risk assessment

Article 16

The employer is obliged to take measures to eliminate or reduce to a minimum the risks for the safety and health of workers in the work processes in which dangerous chemical agents are involved, by:

a) design and organization of work systems at the workplace;
b) equipping with appropriate equipment for working with chemical agents, developing and implementing maintenance procedures to ensure the safety and health of workers in the work process;

c) minimizing the number of workers exposed or who may be exposed;
d) minimizing the duration and intensity of exposure;
e) appropriate hygiene measures;
f) reducing the amount of chemical agents present at the workplace to the minimum level required for the respective type of activity;
g) appropriate work procedures that include measures for handling, storing and transporting, all under safe conditions, at the workplace, hazardous chemical agents and waste containing such chemical agents.

Article 17

(1) If the results of the risk assessment provided for in art. 11 indicates the presence of a risk for the safety and health of workers, the specific protection, prevention and supervision measures provided for in art. 18-28 and in art. 35-39 of this judgment.

(2) If the results of the risk assessment, according to art. 11, shows that due to the amount of dangerous chemical agent present at the workplace there is only a low risk for the safety and health of workers, and the measures taken in accordance with art. 10 para. (1), art. 16 and art. 19 para. (4) are sufficient to reduce that risk, then the provisions of art. 18-28 and 35-39 do not apply.

Section 3
Specific protection and prevention measures

Article 18

The employer shall ensure that the risk to the safety and health of workers caused by the presence of a hazardous chemical agent at the workplace is eliminated or minimized.

Article 19

(1) In application of art. 18 , substitution is usually resorted to, whereby the employer avoids the use of a dangerous chemical agent, replacing it with a chemical agent or process which, under the conditions of use, is not dangerous or is less dangerous for the safety and health of workers, after case.

(2) When the type of activity does not allow the elimination of the risk by substitution, taking into account the activity and risk assessment provided for in art. 11-15, the employer ensures the minimization of the risk by applying protection and prevention measures.

(3) In order of priority, the measures provided for in para. (2) include:

a) the design of appropriate work processes and technical control and the use of suitable equipment and materials, so as to avoid or minimize the emission of dangerous chemical agents that may pose a risk to the safety and health of workers at work;

b) the application of collective protection measures at the source of the risk, such as adequate ventilation and suitable organizational measures;

c) the application of individual protection measures, including the provision of individual protective equipment, if the exposure cannot be prevented by other means.

(4) The practical guidelines for the application of protection and prevention measures in order to reduce the risk are developed by the competent national authorities.

Article 20

The measures provided for in art. 19 are supplemented with health surveillance, according to art. 35-39, if the nature of the risk requires it.

Article 21

The employer carries out the necessary measurements of chemical agents that may present a risk to the health of workers at work, regularly and whenever there is any change in conditions that may affect the exposure of workers to chemical agents, in particular with regard to the values- professional exposure limit, unless it proves through other evaluation means that, in accordance with art. 19, adequate prevention and protection measures were taken.

Article 22

(1) In fulfilling the obligations provided for in art. 11-15 or arising, by way of consequence, from them, the employer takes into account the results of the procedures provided for in art. 21.

(2) In the event that an occupational exposure limit value effectively established at the national level has been exceeded, the employer takes measures immediately, taking into account the nature of that limit, to remedy the situation by applying preventive and protective measures.

Article 23

(1) Based on the global assessment and general principles for the prevention of risks provided for in art. 10 para. (1), art. 11-17 and in art. 19 para. (4) the employer takes technical and/or organizational measures appropriate to the nature of the operation, including the storage, handling and separation of incompatible chemical agents, ensuring the protection of workers against risks arising from the physico-chemical properties of chemical agents.

(2) The measures provided for in para. (1) are taken, in order of priority, in particular, for:

a) to prevent the presence at the workplace of dangerous concentrations of flammable substances or dangerous amounts of unstable chemical substances, if the nature of the work allows this;

b) to avoid the presence of ignition sources that can give rise to fires and explosions or unfavorable conditions that can cause unstable chemical substances or mixtures of substances to generate harmful physical effects; and

c) to reduce the negative effects for the health and safety of workers in case of fire or explosion, due to the ignition of flammable substances, or the harmful physical effects arising from the presence of unstable chemical substances or mixtures of substances.

(3) The work equipment and protective systems provided by the employer for the protection of workers must comply with the provisions of the national and European Union legislation in force regarding design, production and delivery, taking into account the provision of health and safety.

(4) The technical and/or organizational measures taken by the employer must comply with the classification of equipment groups into categories, provided in annex no. 1 to Government Decision no. 245/2016

regarding the establishment of the conditions for making available on the market equipment and protection systems intended for use in potentially explosive atmospheres.

(5) The employer takes measures to ensure an adequate control of the installations, equipment and machines or to make available the equipment to suppress explosions or to discharge the explosion pressure.

Section 4
Measures applicable in the event of accidents, incidents or emergencies

Article 24

In order to protect the safety and health of workers against accidents, incidents and emergencies related to the presence of dangerous chemical agents at the workplace, in compliance with the obligations provided for in art. 10 and 11 of Law no. 319/2006, with subsequent amendments and additions, the employer establishes measures or action plans that can be applied when such an event occurs, so that the appropriate measures are taken. These measures or action plans must include any appropriate protective exercises, which will be carried out at regular intervals, as well as the provision of adequate first aid.

Article 25

(1) If one of the events provided for in art. 24, the employer immediately takes measures to reduce the effects of the event and inform the workers concerned.

(2) In order to return the situation to normal, the employer must:

a) to apply the necessary measures to remedy the situation as quickly as possible;

b) to allow to work in the affected area only workers who are indispensable for carrying out repairs and other necessary operations.

Article 26

(1) Workers who are allowed to work in the affected area are provided with suitable protective clothing, personal protective equipment, special security equipment and the facilities they must use, as long as the situation is maintained.

(2) The situation provided for in art. 24 must not become permanent.

(3) Unprotected persons are not allowed to stay in the affected area.

Article 27

In compliance with the provisions of art. 10 and 11 of Law no. 319/2006, with subsequent amendments and additions, the employer takes the necessary measures to ensure the warning system and other communication systems necessary to signal the existence of an increased risk for safety and health, to allow an adequate reaction and to take immediate action remediation, as well as assistance, evacuation and rescue operations, if needed.

Article 28

(1) The employer ensures the availability of information regarding the measures applicable in case of emergency, involving dangerous chemical agents.

(2) The competent internal and external services in case of accident and emergency have access to the information provided in para. (1).

(3) The information provided in para. (1) include:

a) prior notification of the dangers related to the professional activity;

b) hazard identification measures;

c) the precautionary measures and relevant procedures, so that the emergency services can prepare their own intervention procedures and precautionary measures; and

d) all available information regarding the specific dangers that occur or may occur when an accident or an emergency situation occurs;

e) information about the measures to apply this article.

Section 5
Information, training and consultation of workers

Article 29

(1) In compliance with the provisions of art. 16, 17, 20 and 21 of Law no. 319/2006, with subsequent amendments and additions, the employer ensures that workers or their representatives are provided with:

a) the data obtained based on the provisions of art. 11-15 and additional information whenever major changes at the workplace cause a change in these data;

b) information about the dangerous chemical agents present at the workplace, such as the name of these agents, the risks for safety and health, the occupational exposure limit values, and legal provisions;

c) training and information regarding the necessary precautions and actions to be taken to protect themselves and other workers at work;

d) access to the security data sheet made available by the supplier in accordance with the provisions of art. 31 of Regulation no. 1.907/2006.

(2) The employer ensures that the information transmitted to the workers or their representatives is:

a) provided in a manner appropriate to the result of the risk assessment provided for in art. 11-15. It can go from oral communication to individual training and preparation supported by written information, depending on the nature and degree of risk indicated by the assessment required by the provisions of para. (1);

b) updated so as to take into account the change in conditions.

Article 30

If the containers and pipelines contain dangerous chemical agents for which the applicable national and European legislation on the labeling of dangerous chemical substances and preparations and that on safety signage at the workplace do not require labeling and signage, the employer, in compliance with the exemptions provided by the said legislation , it must be ensured that the contents, nature and risks associated with the contents of containers and pipes can be easily identified.

Article 31

(1) Employers can request, preferably from the manufacturer or supplier, all the information about dangerous chemical agents that are necessary for the application of art. 11, to the extent that neither Regulation no. 1,907/2006, nor Regulation no. 1.272/2008 do not provide for the obligation to provide information.

(2) The persons to whom the information provided for in para. (1) have the obligation to provide them, according to the request, with the exception of data considered confidential, according to the law.

Article 32

The consultation and participation of workers and/or their representatives regarding the issues regulated by this decision is carried out according to art. 18 of Law no. 319/2006, with subsequent amendments and additions.

Chapter III
Prohibitions. Health surveillance

Section 1
Prohibitions

Article 33

It is prohibited to produce, manufacture or use at the workplace the chemical agents provided for in annex no. 3, under the conditions set out in this annex to prevent the exposure of workers to the health risks that certain chemical agents and/or certain activities involving chemical agents may present.

Article 34

The Ministry of Labor and Social Protection together with the Ministry of Health can initiate the decision that is to modify the list of prohibitions provided for in art. 33, to include other chemical agents or other activities, based on the changes made to the list of prohibitions established by the Council of the European Union.

Section 2
Health surveillance

Article 35

(1) In compliance with the provisions of art. 24 and 25 of Law no. 319/2006, with the subsequent amendments and additions, the Ministry of Health introduces the necessary measures to achieve adequate supervision of the state of health of the works for which the results of the assessment, provided for in art. 11-15, indicates a health risk. These measures, including the specified requirements for medical records and exposures, as well as their availability, are introduced in accordance with the provisions of national legislation and practice.

(2) Health surveillance, the results of which will be taken into account when applying preventive measures at the respective workplace, is carried out where the following conditions are simultaneously met:

a) the exposure of the worker to the dangerous chemical agent is such that a link can be established between an identifiable disease or a negative effect of the exposure on health and said exposure;

b) when there is a possibility that the disease or effect may occur under the specific conditions of the worker's activity/work;

c) the investigation technique presents a low risk for workers.

(3) In addition to the provisions of para. (1) and (2), appropriate techniques for detecting signs of illness or the negative effect of the worker's exposure to the hazardous chemical agent must be applied to monitor health.

(4) In the situation where a mandatory biological limit value is established, as provided in annex no. 2, monitoring the state of health, according to the methods in the respective annex, is a mandatory requirement in the case of carrying out an activity with the respective dangerous chemical agent.

(5) Workers must be informed about the requirement provided for in para. (4) before being assigned the task involving the risk of exposure to the indicated hazardous chemical agent.

Article 36

(1) The use of basic lead carbonate - cerium, lead sulfate and all products containing these pigments is prohibited in any painting work, with the exception of painting railway carriages, railway bridges, the double bottom of ships, of decorative painting. In these cases, basic lead carbonate, lead sulfate and products containing these pigments will be used in the form of paste or ready-made paint.

(2) It is prohibited to spray paint with lead oxide (minimum).

(3) The work of young people under 18 years of age or women in painting works involving the use of basic lead carbonate, lead sulfate or lead mini and all products containing these pigments is prohibited.

Article 37

The Ministry of Health establishes the necessary measures to permanently keep up-to-date records of each worker whose state of health is monitored according to the requirements of art. 35.

Article 38

(1) The medical files regarding the state of health and exposure must contain the conclusions of the clinical and specialized examination of the supervision of the state of health and of all the representative data obtained by monitoring the exposure of the respective person to the dangerous chemical agent.

(2) Biological monitoring and related requirements may be part of health surveillance.

(3) The medical files regarding the state of health and exposure are kept at the occupational medicine structure for the duration of the contract with the employer, in an appropriate form that allows their subsequent consultation, respecting the confidentiality requirement.

(4) Copies of the medical files are provided, upon request, to the county public health departments and the Bucharest municipality.

(5) The worker has access, upon request, to the medical health and exposure files that concern him personally.

(6) Employers in bankruptcy proceedings will inform the occupational medicine structure with which they had a contract in order to supervise the workers' health.

(7) When changing the workplace to another unit, the worker will be given, upon request, copies of his medical file and of the occupational risk factor identification sheet, to be handed over to the occupational medicine structure of the respective unit .

Article 39

(1) The worker is informed by the doctor or another person with the necessary qualification in relation to the result that concerns him personally, providing him with information and recommendations regarding any health surveillance action that must be applied to him after the end of the exposure, if following the surveillance of the state of health it is found that:

a) a worker suffers from an identifiable disease or from a negative effect on health, which a doctor specializing in occupational medicine considers to be the result of exposure to a dangerous chemical agent at work; or

b) a mandatory biological limit value was exceeded.

(2) In the cases provided for in letter a) and b) of para. (1), the employer simultaneously performs the following:

a) reviews the risk assessment carried out based on art. 11;

b) reviews the measures taken to eliminate or reduce the risk according to art. 10 para. (1) and art. 16-23;

c) takes into account the advice of the specialist in occupational medicine, of another person with the necessary qualification or of the county public health department and of the municipality of Bucharest, competent authority in applying all the necessary measures to eliminate or reduce the risk according to art. 18-23, including the possibility of assigning the respective worker to a job where there is no risk of further exposure;

d) continue to monitor the health status and review the health status of any other worker who has been exposed in the same way. In such cases, the specialist in occupational medicine or the public health department involved may propose that the exposed persons undergo a medical examination.

Article 40

When developing the national policies for the safety and health of workers, the Ministry of Labor and Social Protection and the Ministry of Health take into account the practical recommendations developed by the European Commission.

Chapter IV
Final provisions

Article 41

The Ministry of Labor and Social Protection, together with the Ministry of Health, ensures the development of the regulations and administrative provisions necessary to comply with this decision.

Article 42

Appendices no. 1-4 are an integral part of this decision.

This decision transposes the following directives:

a) Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers against the risks related to the presence of chemical agents at work [fourteenth special directive within the meaning of Article 16(1) of Directive 89/391/EEC] , published in the Official Journal of the European Communities, series L, no. 131 of May 5, 1998;

b) Commission Directive 91/322/CEE of May 29, 1991 on the establishment of indicative limit values by applying Council Directive 80/1.107/CEE on the protection of workers against risks related to exposure to chemical, physical and biological agents at the workplace work, published in the Official Journal of the European Communities, series L, no. 177 of July 5, 1991;

c) Commission Directive 2000/39/EC of June 8, 2000 establishing the first list of indicative occupational exposure limit values in application of Council Directive 98/24/EC on the protection of the health and safety of workers against risks related to the presence of chemical agents at the workplace, published in the Official Journal of the European Communities, series L, no. 142 of June 16, 2000;

d) Commission Directive 2006/15/EC of February 7, 2006 establishing a second list of indicative occupational exposure limit values in application of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC, published in the Official Journal of the European Union (OJEU), series L, no. 38 of February 9, 2006;

e) annex III of Directive 2004/37/EC of the European Parliament and of the Council of April 29, 2004 on the protection of workers against the risks related to exposure to carcinogenic or mutagenic agents at work [sixth special directive within the meaning of article 16 paragraph (1) from Council Directive 89/391/EEC], published in the Official Journal of the European Communities, series L, no. 158 of April 30, 2004;

f) Commission Directive 2009/161/EU of December 17, 2009 establishing a third list of indicative occupational exposure limit values in application of Council Directive 98/24/EC and amending Directive 2000/39/EC of Commission, published in the Official Journal of the European Union (OJEU), series L, no. 338 of December 19, 2009;

g) article 4 of Directive 2014/27/EU of the European Parliament and of the Council of February 26, 2014 amending Council Directives 92/58/CEE, 92/85/CEE, 94/33/CE, 98/24/ CE and Directive 2004/37/EC of the European Parliament and of the Council to align them with Regulation (EC) no. 1.272/2008 regarding the classification, labeling and packaging of substances and mixtures, published in the Official Journal of the European Union (OJUE), series L, no. 65 of March 5, 2014;

h) annex to Commission Directive (EU) 2017/164 of January 31, 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Directives 91/322/ EEC, 2000/39/EC and 2009/161/EU of the Commission, published in the Official Journal of the European Union (OJEU), series L, no. 27 of February 1, 2017.

Appendix no. 1

Mandatory limit values for occupational exposure to chemical agents

No. crt.	CAS(^1)	EC(^2) (EINECS)	Name of the chemical agent	Skin action(^3)	Occupational exposure limit value				
					8 hours(^4)		Short term(^5) (15 Mentions ^8) min.)		
					mg/mc(^6)	ppm(^7)	mg/mc(^6)	ppm(^7)	
1.	75-07-0	200-836-8	Acetaldehyde/Ethanal		90	50	180	100	
2.	140-11-4	205-399-7	Benzyl acetate 7		50	8	80	13	
3.	112-07-2	203-933-3	2-Butoxyethyl 3-acetate	p	133	20	333	50	Dir. 2000/39
4.	123-86-4	204-658-1	n-Butyl acetate 1		241	50	723	150	Dir. 2019/1,831
5.	105-46-4	203-300-5	Sec-butyl acetate 1		241	50	723	150	Dir. 2019/1,831
6.	108-84-9	203-621-7	1,3 Dimethylbutyl Acetate/Secondary Hexyl Acetate		150	25	250	42	
7.	625-16-1	-	1,1 Dimethylpropyl Acetate/Pentyl Tert Acetate		270	50	540	100	Dir. 2000/39 Amylacetate, third
8.	141-78-6	205-500-4	Ethyl acetate 4		734	200	1468	400	Dir. 2017/164
9.	111-15-9	203-839-2	2-Ethoxyethyl acetate/Ethyl glycol acetate 2	p	11	2	-	-	1b Dir. 2009/161
10.	110-19-0	203-745-1	Isobutyl acetate 1		241	50	723	150	Dir. 2019/1,831
11.	123-92-2	204-662-3	Isopentyl acetate 3		270	50	540	100	Dir. 2000/39
12.	108-21-4	203-561-1	Isopropyl acetate 1		400	96	600	144	
13.	79-20-9	201-185-2	Methyl acetate 2		200	63	600	188	
14.	626-38-0	210-946-8	1-Methylbutyl acetate 8		270	50	540	100	Dir. 2000/39
15.	110-49-6	203-772-9	2-Methoxyethyl acetate 9	p	4.8	1	-	-	1b Dir. 2009/161
16.	108-65-6	203-603-9	2-Methoxy-1-methylethyl acetate 9	p	275	50	550	100	Dir. 2000/39
17.	628-63-7	211-047-3	Pentyl acetate 3		270	50	540	100	Dir. 2000/39
18.	620-11-1	-	3-pentyl acetate		270	50	540	100	Dir. 2000/39
19.	109-60-4	203-686-1	Propyl acetate 1		400	96	600	144	
20.	108-05-4	203-545-4	Vinyl acetate 4		17.6	5	35.2	10	Dir. 2009/161
21.	141-97-9	205-516-1	Aceto-ethyl acetate/Acetyl-acetate ethyl 1		100	19	200	38	
22.	67-64-1	200-662-2	Acetone 2		1210	500	-	-	Dir. 2000/39
23.	64-19-7	200-580-7	Acetic acid 7		25	10	50	20	Dir. 2017/164
24.	79-10-7	201-177-9	Acrylic acid 9		29	10	59^(9)	20^(9)	Dir. 2017/164
25.	10035-10-6	233-113-7	Hydrobromic acid/Hydrogen bromide 0		-	-	6,7	2	Dir. 2000/39
26.	107-92-6	203-532-3	Butyric acid 3		15	4	30	8	
27.	74-90-8	200-821-6	Hydrocyanic acid (expressed in CN) 6	p	1	0.9	5	4.5	Dir. 2017/164 Hydrogen cyanide
28.	79-11-8	201-178-4	Chloroacetic acid		-	-	1	-	
29.	7647-01-0	231-595-7	Hydrochloric acid/Hydrogen chloride		8	5	15	10	Dir. 2000/39
30.	598-78-7	209-952-3	2-chloropropionic acid		1	0.2	2	0.4	
31.	75-99-0	200-923-3	2,2-dichloropropionic acid 0		2	0.3	10	1.7	
32.	756-80-9	212-053-2	O,O dimethyldithiophosphoric acid 9		10	-	15	-	
33.	7664-39-3	231-634-8	Hydrofluoric acid/Hydrogen fluoride		1.5	1.8	2.5	3	Dir. 2000/39
34.	64-18-6	200-579-1	Formic acid 1		9	5	-	-	Dir. 2006/15
35.	7782-79-8	231-965-4	Hydrazoic acid 8		1	-	2	-	
36.	79-41-4	201-204-4	Methacrylic acid 4		30	8.5	45	13	
37.	7697-37-2	231-714-4	Nitric acid/Nitric acid 2		-	-	2.6	1	Dir. 2006/15
38.	7664-38-2	231-633-2	Orthophosphoric acid 2		1	-	2	-	Dir. 2000/39
39.	144-62-7	205-634-3	Oxalic acid 3		1	-	-	-	Dir. 2006/15
40.	88-89-1	201-865-4	Picric acid 9		0.1	-	-	-	Dir. 91/322

41.	79-09-4	201-176-	Propionic acid 3		31	10	62	20	Dir. 2000/39
42.	7664-93-9	231-639-	Sulfuric acid^(10) 5		0.05	-	-	-	Sprayed Liquid Particles^(11) Dir. 2009/161 0.05 Dir.
43.	107-02-8	203-453-	Acrylaldehyde/Acrolein 4		0.05	0.02	0.12	2017/164 C1B; M1B; R2	
44.	79-06-1	201-173-	Acrylamide 7	p	0.1	-	-	-	Dir. 2017/2,398
45.	141-32-	205-480-	n-Butyl acrylate 7 205		11	2	53	10	Dir. 2000/39
46.	2 140-88-5	-438-	Ethyl acrylate/Ethyl acrylate 8		21	5	42	10	Dir. 2009/161
47.	96-33-3	202-500-	Methyl acrylate/Methyl acrylate 6 203		18	5	36	10	Dir. 2009/161
48.	107-13-1	-466-	Acrylonitrile 5	p	5	2,3	10	4.6	C1B
49.	15972-60-8	240-110-8	Alachloro/2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide		20	-	30	-	
50.	107-18-6	203-470-	Allyl alcohol 7	p	4.8	2	12.1	5	Dir. 2000/39
51.	64-17-5	200-578-	Ethyl alcohol/Ethanol 6		1900	1000 9500		5000	
52.	98-00-0	202-626-	Furfuryl alcohol 1 203		50	12.5	100	25	
53.	111-70-	-897-9 203	Heptyl alcohol/1-Heptanol		150	31.5	250	53	
54.	6 111-27-	-852-	Hexyl alcohol/1-Hexanol 3 204		150	36	250	60	
55.	3 123-96-6	-667-	Isooctyl alcohol/2-Octanol 0 200	p	150	28	250	47	
56.	67-63-0	-661-	Isopropyl alcohol/2-Propanol 7		200	81	500	203	
57.	71-23-8	200-746-	Propyl alcohol/1-Propanol 9		200	81	500	203	
58.	123-72-	204-646-	Butyric aldehyde 6 203		-	-	25	9	
59.	8 107-20-	-472-	Chloroacetic aldehyde 8		-	-	3	1	
60.	0 123-73-	204-647-	Crotonic aldehyde/2-Butenal 1 206 -215-		-	-	25	9	
61.	9 309-00-		Aldrin or isodrin/1, 2, 3, 4, 10, 10-hexachlor 1, 4, 4a, 5, 8, 8a-hexahydro-1,4,5,8-diendodimethylene naphthalene 8 203 -463		0.2	-	0.25	-	
62.	2 107-11-		Allylamine 9		0.1	-	0.4	-	
63.		-	Aluminum and oxides		3	-	10	-	(Powders)
64.	-	-	Aluminum and oxides		1	-	3	-	(smokes)
65.	92-67-1	202-177-4	aminodiphenyl 1 205		-	-	-	-	Fp
66.	141-43-5	-483-2	-aminoethanol/Ethanolamine 3 200 -860- 2	p	2.5	1	7.6	3	Dir. 2006/15
67.	75-31-0	-aminopropane/	Isopropylamine 9 200 -521-		7	3	10	4	
68.	61-82-5		Amitrol 5		0.2	-	-	-	Dir. 2017/164
69.	7664-41-7	231-635-3	Ammonia		14	20	36	50	Dir. 2000/39
70.	108-24-7	203-564-	Acetic anhydride 8 203		15	3.6	25	6	
71.	106-31-0	-383-	Butyric anhydride 4 201		1	-	5	-	
72.	85-44-9	-607-	Phthalic anhydride 5		2	0.3	5	0.8	(Condensation vapors and aerosols)
73.	108-31-6	203-571-	Maleic anhydride 6 200		1	0.25	3	0.75	
74.	62-53-3	-539-3 201	Aniline^(12)	p	7.74	2	19.35	5	Dir. 2019/1,831
75.	90-04-0	-963-o-	-Anisidine 1 208 -651	p	0.3	0.06	0.5	0.1	C1B; M2
76.	536-90-3	m-Anisidine	4	p	0.3	0.06	0.5	0.1	
77.	104-94-9	203-254-2	p-Anisidine	p	0.3	0.06	0.5	0.1	
78.	7440-36-0	231-146-	Antimony/Stibium 5 201		0.2	-	0.5	-	
79.	86-88-4	-706-	Antu/1-(1-naphthyl)-2-thiourea 3		0.2	-	0.6	-	
80.	7440-22-4	231-131-	Silver 3		0.1	-	-	-	(Metallic); Dir. 2000/39 Dir. 2006/15
81.	-	231-131-	Silver (soluble compounds expressed in Ag) 3		0.01	-	-	-	Inhalable fraction C1A Dir.
82.	-	-	Arsenic acid and its salts, as well as inorganic compounds of arsenic		0.01	-	-	-	2019/983 For the copper smelting sector, the limit value applies from 11 July 2023.
83.	8052-42-	232-490-	Asphalt		5	-	-	-	(smokes)
84.	4 1912-24-	9 217-617-	Atrazine		1	-	2	-	
85.	9 26628-22-8	8 247-852-	Sodium azide 1	p	0.1	-	0.3	-	Dir. 2000/39
86.	-	-	Barium (soluble compounds expressed in Ba)		0.5	-	-	-	Dir. 2006/15
87.	71-43-2	200-753-7	Benzene	p	3.25	1	-	-	C1A; M1B; Dir. 2004/37
88.	50-32-8	200-028-	3,4-benzpyrene/Benzo[a]pyrene 5 202 -199		-	-	-	-	Fp; C1B; M1B; 1b
89.	92-87-5		Benzidine 1	p	-	-	-	-	Fp; C1A
90.	-	-	Gasoline (fuels)		300	-	500	-	

91. 93	89-0	202-284-	Ethyl benzoate 3		200	33	300	49	
92.	106-51-4	203-405-	p-Benzoquinone/Quinone 2		0.3	-	0.4	-	
93. -		-	Beryllium and inorganic compounds of beryllium	P^(13)	0.0002	-	-	-	Inhalable fraction C1B Dir. 2019/983 Limit value of 0.0006 mg/m3 until July 11, 2026
94.	111-44-4	203-870-	Bis(2-chloroethyl)ether/2,2' Dichloro diethyl ether 1	p	40	6.8	60	10.3	
95.	542-88-1	208-832-	Bis (chloromethyl) ether 8		-	-	-	-	Fp; C1A
96.	14324-55-1	238-270-	Zinc bis(diethyldithiocarbamate) 9		3	-	5	-	
97. 80	05-7	201-245-	Bisphenol A/4,4'-Isopropylidenediphenol 8		2	-	-	-	Inhalable fraction R2; Dir. 2017/164
98.	7726-95-6	231-778-1	Bromine		0.7	0.1	-	-	Dir. 2006/15
99. 74	96-4	200-825-	Bromethane/Ethyl bromide 8		400	90	500	112	C2
100. 7	4-83-9	200-813-	Bromomethane/Methyl bromide 2	p	20	5	30	7.5	M2
101. 2	593-60-	209-800-6	Ethylene bromide; bromethylene		4.4	1	-	-	C1B; Dir. 2017/2,398
102.0	106-99-	203-450-	1,3 Butadiene 8		2.2	1	-	-	C1A; M1B Dir. 2017/2,398
103. 7	1-36-3	200-751-	n-Butanol 6		100	33	200	66	
104. 7	8-93-3	201-159-	2 Butanone/Ethyl methyl ketone/Butanone 0		600	200	900	300	Dir. 2000/39
105. 6	110-65-	203-788-	2-Butyne-1,4-diol 6		0.5	-	-	-	Dir. 2017/164
106. 9	109-73-	203-699-	Butylamine 2	p	-	-	15	5	
107. 4	106-35-	203-388-1	Butyl ethyl ketone/Heptan-3-one/3-heptanone		95	20	-	-	Dir. 2000/39
108. 2	111-76-	203-905-0	2-Butoxyethanol/Ethylene glycol monobutyl ether	p	98	20	246	50	Dir. 2000/39
109.	112-34-5	203-961-	2-(2-Butoxyethoxy)-ethanol/Dowanol DB 6		67.5	10	101.2	15	Dir. 2006/15
110.	2426-08-6	219-376-	Butyl glycidyl ether 4		100	19	200	38	C2; M2
111. -		-	Cadmium and its inorganic compounds		0.001	-	-	-	Inhalable fraction^(14) C1B; M2; R2 Dir. 2019/983 limit value of 0.004 mg/m3 until July 11, 2027
112. 7	6-22-2	200-945-0	Camphor		1	6	3	18	
113. 2	105-60-	203-313-	ÿ-Caprolactam/Cyclohexanone-iso-oxime 2		10	-	40	-	(Powders, vapors) Dir. 2000/39
114. 6	3-25-2	200-555-	Carbaryl/1-naphthyl methylcarbamate 0		2	-	5	-	C2
115. 8	105-58-	203-311-	Diethyl carbonate 1		700	145	1000	207	
116. 8	497-19-	207-838-	Sodium carbonate 8		1	-	3	-	
117.	12070-12-1	235-123-	Tungsten carbide 0		2	-	6	-	
118. 4	463-51-	207-336-	Citizen 9		0.5	-	1.5	-	
119. 2	420-04-	206-992-	Cyanamide 3	p	1	0.58	-	-	Dir. 2006/15
120. 7	5-05-8	200-835-	Cyanomethane/Acetonitrile 2	p	70	40	-	-	Dir. 2006/15
121. 8	151-50-	205-792-3	Potassium cyanide (expressed in CN)	p	1	-	5	-	Dir. 2017/164
122. 9	143-33-	205-599-4	Sodium cyanide (expressed in CN)	p	1	-	5	-	Dir. 2017/164
123. -		-	Cyanides (other than those of headings 121 and 122) and P cyanogens (expression in CN) 203-806-		0.5	-	1	-	
124. 7	110-82-		Cyclohexane 2		700	200	-	-	Dir. 2006/15
125.0	108-93-	203-630-	Cyclohexanol 6	p	100	25	200	50	
126.	108-94-1	203-631-	Cyclohexanone 1	p	40.8	10	81.6	20	Dir. 2000/39
127. 8	110-83-	203-807-	Cyclohexene 8		700	208	1200	357	
128. 8	108-91-	203-629-	Cyclohexylamine 0		20	5	40	10	R2
129. 7	542-92-	208-835-4	Cyclopentadiene		100	35.5	200	75	
130.	12079-65-1	235-142-4	Cyclopentadienyl tricarbonyl manganese		0.1	-	0.3	-	
131. 7	5-19-4	200-847-8	Cyclopropane		500	290	700	407	
132.	7782-50-5	231-959-5	Chlorine		-	-	1.5	0.5	Dir. 2006/15
133. 7	108-90-	203-628-5	Chlorobenzene/monochlorobenzene		23	5	70	15	Dir. 2006/15
134. 7	4-97-5	200-826-	Chlorobromethane 3		700	132	1000	189	
135. 4	506-77-	208-052-8	Chlorcian		-	-	1	0.4	
136. 5	7-74-9	200-349-	Chlordane/1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan 0		0.3	-	0.6	-	C2

137.	106 -89 - 8	203 -439 - 1	-chloro -2,3 -epoxypropane/Epichlorohydrin 8	p	1.9	-	-	-	C1B Dir. 2019/130
138.	95 -57 - 8	202 -433 - 2	2 -Chlorophenol		-	-	10	-	
139.	74 -87 - 3	200 -817 -	Chloromethane/methyl chloride 4		42	20			C2 Dir. 2019/1831
140.	100 -00 -	202 -809 -	1 - Chloro -4 nitrobenzene	p	-	-	1	0.16	C2; M2
141.	5 600 -25 - 9	6 209 -990 -	1 -Chloro -1 nitropropane		50	10	75	15	
142.	532 -27 - 4	0 208 -531 -	2 -Chloroacetophenone 1		-	-	0.3	0.05	
143.	106 -47 - 8	203 -401 -	4 - Chloroaniline	p	2	-	5	-	C1B
144.	75 -00 - 3	0 200 -830 - 5	Chloroethane		268	100	-	-	C2 Dir. 2006/15
145.	40507 - 94 - 6	254 -947 - 1	6-Chloro-3-(chloromethyl)-1,3 benzoxazolone		15	-	20	-	
146.	53469 - 21 - 9	-	Chlorodiphenyl (42% chlorine)	p	-	-	1	-	
147.	11097 - 69 - 1	-	Chlorodiphenyl (54% chlorine)	p	-	-	0.5	-	
148.	75 -45 - 6	200 -871 -	Chlorodifluoromethane		3600	1000	-	-	Dir. 2000/39
149.	107 -07 - 3	9 203 -459 -	2 Chloroethanol/Ethylene chlorohydrin 7 200	p	3	1	10	3	
150.	67 -66 - 3	-663 -	Chloroform/Trichloromethane 8	p	10	2	-	-	C2 Dir. 2000/39
151.	96 -30 - 0	202 -497 - 2	-chloro - N -methylacetamide 1 209		10	-	14	-	
152.	563 -47 - 3	-251 -	3 Chloro -2methyl propene/Methyl chloride 2		80	22	150	41	
153.	97 -00 - 7	202 -551 -	1 -Chloro 2,4 dinitrobenzene 4		-	-	1	-	
154.	126 -99 - 8	204 -818 - 0	Chloroprene/2 Chloro -1,3 butadiene	p	30	8	50	14	C1B
155.	75 -29 - 6	200 -858 - 2	-chloropropane/isopropyl chloride 8 202 -492 - 3		400	125	500	156	
156.	96 -24 - 2	-chloro -1,2	-propanediol/Monochlorohydrin 4 203 -457 - 6 218 -026 - o		5	-	10	-	
157.	107 -05 - 1	-Chlorostyrene 8	3-chloropropene/allyl chloride		3	1	6	2	C2; M2
158.	1 2039 87 - 4	202 -424 - 2	-chlorotoluene 3		50	9	100	18	
159.	95 -49 - 8	203 -397 - 4	-chlorotoluene 0		150	30	250	50	
160.	106 -43 - 4	202 -853 - ÿ	Chlorotoluene/		150	30	250	50	
161.	100 -44 - 7	benzyl chloride	6		5	1	8	1.5	C1B
162.	75 -36 - 5	200 -865 -	Acetyl chloride 6		2	0.6	5	1.6	
163.	12125 - 02 - 9	235 -186 -	Ammonium chloride 4		5	-	10	-	
164.	98 -88 - 4	202 -710 -	Benzoyl chloride 8 201		5	0.9	10	1.8	
165.	79 -04 - 9	-171 -	Chloroacetyl chloride 6 201		10	2	20	4	
166.	79 -36 - 7	-199 -	Dichloroacetyl chloride 9 234		3	0.5	5	0.8	
167.	10545 - 99 - 0	-129 -	Sulfur chloride 0		2	0.4	5	0.9	
168.	7791 - 25 - 5	232 -245 -	Sulfuryl chloride 6 231		2	0.4	5	0.9	
169.	7719 - 09 - 7	-748 -	Thionyl chloride 8		15	3	25	5	
170.	75 -01 - 4	200 -831 -	Vinyl chloride (monomer) 0		2.6	1	-	-	C1A; Dir. 2004/37 Dir. 2017/2,398
171.	7440 - 48 - 4	231 -158 -	Cobalt		0.05	-	0.1	-	
172.	8050 - 09 - 7	0 232 -475 -	Rosin (decomposition products when soldering with fludor, 7 expressed in formaldehyde)		0.1	-	-	-	
173.	1319 - 77 - 3	215 -293 -	Cresols (all isomers) 2	p	22	5	-	-	Dir. 91/322
174.	-	-	Chromium (VI) compounds which are carcinogenic substances in the sense of art. 5 point 1 lit. a) from Government Decision no. 1.093/2006, with subsequent amendments and additions (such as chrome)		0.005	-	-	-	C1A/C1B; M1B; R2 Dir. 2017/2,398 Limit value 0.010 mg/m3 until January 17, 2025 Limit value: 0.025 mg/m3 for welding and plasma cutting processes or similar work processes that generate fumes until January 17, 2025
175.	-	-	Metallic chromium, inorganic compounds of Cr(II) and insoluble inorganic compounds of Cr(III)		2	-	-	-	Dir. 2006/15
176.	-	-	Trivalent chromium (soluble compounds) 202		0.5	-	-	-	
177.	98 -82 - 8	-704 -	Cumene ^(12)/Isopropylbenzene ^(12) 5 (2-Phenylpropane)	p	50	10	250	50	Dir. 2019/1,831
178.	7440 - 50 - 8	231 -159 - 6	Copper		-	-	0.2	-	(smokes)
179.	7440 - 50 - 8	231 -159 - 6	Copper		0.5	-	1.5	-	(Powders)
180.	94 -75 - 7	202 -361 - 1	2,4 D/2,4-dichloro-phenoxyacetic acid		5	-	10	-	
181.	1596 - 84 - 5	216 -485 -	Daminozide/Alar 9		1	-	3	-	
182.	533 -74 - 4	208 -576 - 7	Dazomet/tetrahydro-3,5-dimethyl-2H-1,3,5-triadiazine-2-thione		-	-	3	-	

183.	50 -29 - 3	200 -024 -	DDT/p,p'-dichlorodiphenyl-trichloroethane 3	p	0.5	-	1	-	C2
184.	95828 - 55 - 0	-	DDVP/o,o'-dimethyl-2,2dichlorodivinyl-phosphate	p	0.5	-	1.5	-	
185.	17702 - 41 - 9	241 -711 -	Decaborane	p	0.1	0.016 0.3		0.05	
186.	91 -17 - 8	8 202 -046 -	Decahydronaphthalene/Decalin 9 203		100	18	200	36	
187.	112 -30 -	-956 -	1 - Decanol 9		100	15	200	30	
- 188.	1 8065 48 - 3	-	Demeton/Sistox	p	0.05	-	0.15	-	
189.	8022 - 00 - 2	-	Demeton methyl	p	0.2	-	0.5	-	
190.	431 -03 - 8	207 -069 - 8	Diacetyl/Butanedione		0.07	0.02	0.36	0.1	Dir. 2017/164
191.	124 -02 - 7	204 -671 -	Diallylamine 2		0.5	0.1	2	0.5	
192.	37764 - 25 - 3	253 -658 -	N,N diallyl 2,2 dichloroacetamide 8 213		7	-	10	-	
193.	999 -21 - 3	-658 -	Diallyl maleate 0		1	-	5	-	
194.	334 -88 - 3	206 -382 -	Diazomethane		0.3	0.2	0.5	0.3	C1B
195.	19287 - 45 - 7	7 242 -940 - 6	Diborane		0.1	0.1	1	1	
196.	106 -93 - 4	203 -444 -	1,2 Dibromoethane/Ethylene dibromide 5	p	0.8	0.1	-	-	C1B Dir. 2019/130
197.	74 -95 - 3	200 -824 -	Dibromomethane/Methylene bromide 2 203 -921		10	1.4	50	7	
198.	111 -92 - 2		Di - n -butylamine 8		-	-	6	1.1	
199.	142 -96 -	205 -575 -	Di - n -butyl ether/Dibutyl ether 3 203	p	30	6	50	9	
- 200.	1 107 -66 4	-509 -	Dibutyl phosphate		2	-	5	-	
201.	84 -74 - 2	8 201 -557 - 4	Dibutyl phthalate		2	-	5	-	1b
202.	95 -50 - 1	202 -425 -	1,2-dichlorobenzene/o -Dichlorobenzene 9	p	122	20	306	50	Dir. 2000/39
203.	106 -46 - 7	203 -400 - 5	1,4-Dichlorobenzene/p-Dichlorobenzene	p	12	2	60	10	C2; Dir. 2017/164
204.	22591 - 21 - 5	245 -111 -	1,1 Dichloro-3,3 dimethyl-2-butanone/Dichlorpinacolone		-	-	10	-	
205.	75 -34 - 3	7 200 -863 - 5	1,1-dichloroethane	p	412	100	-	-	Dir. 2000/39
206.	107 -06 - 2	203 -458 - 1	1,2 Dichloroethane/Ethylene dichloride	p	8.2	2	-	-	C1B Dir. 2019/130
207.	75 -35 - 4	200 -864 -	1,1 Dichloroethylene/Vinylidene Chloride 0		8	2	20	5	C2; Dir. 2017/164
208.0	540 -59 -	208 -750 - 2	1,2 Dichloroethylene		200	50	300	76	
209.	75 -09 - 2	200 -838 -	Dichloromethane/Methylene chloride 9	p	353	100	706	200	C2; Dir. 2017/164
210.	594 -72 - 9	209 -854 -	1,1 Dichloro-1-nitroethane		10	1.7	40	7	
211.	78 -87 - 5	0 201 -152 -	1,2 Dichloropropane/propylene chloride 2		100	22	200	44	
212.	96 -23 - 1	202 -491 - 9	1,3 Dichloro-2-propanol/1,3 Dichlorohydrin	p	5	0.95	10	1.9	C1B
213.	18671 - 97 - 1	-	2,6-dichloroquinoxaline		50	-	100	-	
214.	75 -71 - 8	200 -893 -	Dichloro-difluoromethane/Freon 12 9		2000	494	3000	741	
215.	75 -43 - 4	200 -869 -	Dichloromonofluoromethane/Freon 21 8		42	10	-	-	
216.	6607 - 45 - 0	-	1,2 Dichlorovinyl -benzene/ÿ,ÿ Dichlorostyrene		30	-	50	-	
217.	76 -14 - 2	200 -937 -	1,1 Dichloro-tetrafluoroethane/Freon 114		3000	430	5000	715	
218.	60 -57 - 1	7 200 -484 -	Dieldrin 5	p	0.2	-	0.25	-	C2
219.	109 -89 - 7	203 -716 -	Diethylamine 3		15	5	30	10	Dir. 2006/15
220.	100 -37 - 8	202 -845 -	2 -Diethylaminoethanol 2	p	30	6	45	9	
221.	91 -66 - 7	202 -088 - 8	N,N Diethylaniline		10	1.6	20	3.2	
222.	91 -65 - 6	202 -087 -	N,N Diethylcyclohexylamine 2		15	-	30	-	
223.	122 -39 - 4	204 -539 -	Diphenylamine 4		4	-	6	-	
224.	80 -10 - 4	201 -251 - 0	Diphenyldichlorosilane		5	05	7	0.7	
225.	25167 - 94 - 6	246 -696 - 1	Diphenylpropane		10	-	15	-	
226.	8004 - 13 - 5	-	Diphyl/dinyl/dowterm/mixture of diphenyl and diphenyl oxide)		2	-	4	-	
227.	75 -61 - 6	200 -885 -	Difluorodibromo-methane 5		600	70	800	93	
228.	120 -80 - 9	204 -427 -	1,2 Dihydroxybenzene/Pyrocatechol 5		10	-	20	-	
229.	123 -31 - 9	204 -617 - 8	1,4-dihydroxybenzene/Hydroquinone		1	-	2	-	C2; M2
230.	25167 - 70 - 8	246 -690 -	Diisobutylene 9		2000	-	2500	-	
231.	27205 - 99 - 8	248 -322 -	O,O Sodium diisopropyl dithiophosphate 2		-	-	20	-	

232.	127 -19 - 5	204 -826 -	N,N-dimethylacetamide 4	p	36	10	72	20	R1B; Dir. 2000/39
233.	124 -40 - 3	204 -697 -	Dimethylamine 4		3.8	2	9.4	5	Dir. 2000/39
234.	121 -69 - 7	204 -493 -	N,N Dimethylaniline 5	p	25	5	49	10	C2
235.	103 -83 - 3	203 -149 -	Dimethyl-benzylamine 1		5	0.9	10	1.8	
236.	75 -97 - 8	200 -920 - 4	3,3 Dimethyl-2-butanone/Pinacolone		60	15	150	37	
237.	75 -78 - 5	200 -901 - 0	Dimethyl-dichlorosilane		3	0.6	6	1,2	
238.	1331 - 15 -	-	2,5 Dimethyl 1,4 dioxane		50	-	100	-	
239.	3 115 -10 6	204 -065 -	Dimethyl ether/Dimethyl oxide 8		1920	1000	-	-	Dir. 2000/39
240.	68 -12 - 2	200 -679 -	N,N Dimethylformamide 5	p	15	5	30	10	R1B; Dir. 2009/161
241.	9	868 -85 -	212 -783 - 8	Dimethylphosphite		12	-	-	- (Distilled)
242.	8	108 -83 -	203 -620 -	2,6 Dimethyl 4 heptanone/Diisobutyl ketone 1 200 -316 -		150	26	250	43
243.	57 -14 - 7		N,N Dimethylhydrazine 0	p	0.7	0.3	1.5	0.6	C1B
244.	77 -78 - 1	201 -058 -	Dimethylsulfate 1	p	0.5	0.1	-	-	C1B; M2
245.	6	120 -61 -	204 -411 -	Dimethyl terephthalate		2	-	5	-
246.	60 -51 - 5	8 200 -480 -	Dimethoate		7	-	10	-	
247.	109 -87 - 5	3 203 -714 -	Dimethoxymethane/Methylal 2		1500	531	2500	885	
248.	6	628 -96 -	211 -063 -	Ethylene glycol dinitrate 0	p	0.3	0.05	1	0.2
249.	25154 - 54 - 5	246 -673 - -	Dinitrobenzene (all isomers) 6 200 -087	p	1	0.15	1.5	0.2	
250.	51 -28 - 5		2,4 Dinitrophenol 7	p	0.7	-	1	-	
251.		534 -52 -	208 -601 -	4,6 Dinitro - o -cresol/DNOC 1 246	p	0.05	-	0.2	-
252.	1 25321 14 - 6	-836 -	Dinitrotoluene 1	p	1	-	1.5	-	C1B; M2; R2
253.	88 -85 - 7	201 -861 -	Dinoseb/6 sec butyl 2,4 dinitrophenol		0.1	-	0.5	-	1b
254.	2813 - 95 - 8	7 220 -560 -	Dinosebacetate 1		0.7	-	1	-	
255.	0	117 -84 -	204 -214 -	Dioctyl phthalate/Diethyl-hexyl 2-phthalate 7		2	0.1	5	0.3
256.	123 -91 - 1	204 -661 - 8	1,4 Dioxane	p	73	20	-	-	C2; Dir. 2009/161 Dir. 2017/164
257.	44 - 0	10102 -	233 -272 -	Nitrogen dioxide 6		0.96	0.5	1.91	1	Limit values for nitrogen dioxide is applied under the prescribed conditions to art. II from Government Decision no. 584/2018^*).
258.	9	124 -38 -	204 -696 -	Carbon dioxide 9 233		9000	5000	-	-	Dir. 2006/15
259.	04 - 4	10049 -	-162 -	Chlorine dioxide		0.1	0.04	0.3	0.11	
260.	09 - 5	7446 -	8 231 -195 -	Sulfur dioxide/Sulfur dioxide 2 236 -675 -		1.3	0.5	2.7	1	Dir. 2017/164
261.	67 - 7	13463 -		Titanium dioxide		10	-	15	-	
262.	7	142 -84 -	5 205 -565 -	Dipropylamine 9		1.7	0.4	2	0.5	
263.	4	298 -04 -	206 -054 -	Disulfoton/O,O -diethyl - S - 2 -(ethylthio) ethyl -phosphodithionate 3		0.1	-	0.2	-	
264.	59 - 1	2179 -	218 -550 -	Allyl-propyl disulfide 7		10	1.7	20	3,4	
265.	72 -20 - 8		200 -775 -	Endrin/1,2,3,4,10,10 Hexachlor -6,7 - epoxy 1,4,4a,5,6,7,8,8a -octahydro - 1,4,5,8 dimethanonaphthalene 7 203 -437 - 1,2	p	0.03	-	0.1	-	
266.	6	106 -87 -	epoxy - 4 -epoxyethyl cyclohexane/4-vinyl diepoxide P cyclohexene		57	10	-	-	C2
267.	14 - 2	4016 -	223 -672 - 9	2,3 Epoxypropyl isopropyl ether/Isopropyl glycidyl ether		50	10.5	100	21	
268.	3	111 -43 -	203 -869 - 6	n-propyl ether/Dipropyl ether		1000	-	1500	-	
269.	3	108 -20 -	203 -560 - -	Isopropyl ether/Diisopropyl ether 6 200 -834		1000	-	1500	-	
270.	75 -04 - 7		7	Ethylamine		9.4	5	-	-	Dir. 2000/39
271.	4	100 -41 -	202 -849 - 4	Ethylbenzene	p	442	100	884	200	Dir. 2000/39
272.	98 - 8	5459 -	226 -733 -	N -ethylcyclohexyl amine 8		15	2.9	30	5.8	
273.	3	107 -15 -	203 -468 -	Ethylenediamine/1,2 Diaminoethane 6 222		20	8	30	12	
274.	10 - 7	3566 -	-651 -	Ammonium ethylene-bis-dithiocarbamate 1		20	-	25	-	
275.	107 -21 - 1	203-473-3	Ethylene glycol/Ethanediol	p	52	20	104	40	Dir. 2000/39
276.	4	109 -86 -	203 -713 -	Ethylene glycol monomethyl ether/2-Methoxyethanol 7	p	3.2	1	-	-	R1B; Dir. 2009/161
277.	4	151 -56 -	205 -793 - 9	Ethyleneimine	p	0.5	0.3	1	0.5	C1B; M1B
278.	7	104 -76 -	203 -234 - 2	ethylhexan - 1 -ol 3		5.4	1	-	-	Dir. 2017/164

279.	577-11-7	209-406-	2 Sodium ethylhexyl sulfosuccinate 4		-	-	20	-	
280.	75-08-1	200-837-	Ethyl mercaptan/Ethane thiol 3		-	-	1	-	
281.	622-96-8	210-761-	4-Ethyl toluene 2		300	61	400	81	
282.	110-80-5	203-804-	2-Ethoxyethanol/Ethylene glycol monoethyl ether 1	p	8	2	-	-	R1B; Dir. 2009/161
283.	2370-63-0	219-135-	2 Ethoxy-ethyl-methacrylate 3		100	-	200	-	
284.	101-84-8	202-981-	Phenylether/Diphenylether 2		7	1	14	2	Dir. 2017/164
285.	122-60-1	204-557-	Phenyl glycidyl ether/PGE/ 2,3-epoxypropyl phenyl ether/ 1,2-epoxy-phenoxypropane 2		6	1	10	2	C1B; M2
286.	100-63-0	202-873-	Phenyl hydrazine 5	p	15	3	25	6	C1B; M2
287.	98-86-2	202-708-	Phenyl Methyl Ketone/Acetophenone 7		100	20	200	41	
288.	106-50-3	203-404-7	p-Phenylenediamine	p	0.07	0.01	0.1	0.02	
289.	95-54-5	202-430-	o-Phenylenediamine 6		-	-	10	-	C2; M2
290.	108-95-2	203-632-7	Phenol	p	8	2	16	4	M2; Dir. 2009/161
291.	12604-58-9	603-118-6	Ferrovanadium		0.5	-	1.5	-	(Powders)
292.	7782-41-4	231-954-8	Fluorine		1.58	1	3.16	2	Dir. 2000/39
293.	62-74-8	200-548-	Sodium fluoroacetate 2	p	0.02	0.004 0.05		0.01	
294.	7789-75-5	232-188-	Calcium fluoride 7		1	-	2	-	
295.	2699-79-8	220-281-	Sulfuryl fluoride 5		15	-	20	-	
296.	-	-	Inorganic fluorides		2.5	-	-	-	Dir. 2000/39
297.	50-00-0	200-001-	Formaldehyde 8	P^(15)	0.37	0.3	0.74	0.6	C2 Dir. 2019/983 Limit value of 0.62 mg/m3 or 0.5 ppm for the healthcare sector, the funeral and embalming services sector until July 11, 2024
298.	75-12-7	200-842-	Formamide 0		20	11	30	16	1b
299.	109-94-4	203-721-	Ethyl formate 0		200	66	300	99	
300.	107-31-3	203-481-	Methyl formate 7	p	125	50	250	100	Dir. 2017/164
301.	7803-51-2	232-260-8	Phosphine/Hydrogen Phosphate		0.14	0.1	0.28	0.2	Dir. 2006/15
302.	7723-14-0	231-768-7	Red phosphorus		0.05	-	0.15	-	
303.	75-44-5	200-870-	Phosgene/carbonyl chloride 3		0.08	0.02	0.4	0.1	Dir. 2000/39
304.	732-11-6	211-987-	Phosmet/Imidan/Ortadox 4		1.5	-	3	-	
305.	98-01-1	202-627-	2-Furaldehyde 7		10	2.5	15	4	C2
306.	-	-	Liquefied gases (mainly C3-C4) 231-164-		1200	-	1500	-	
307.	7440-56-4		Germany 3		2	-	5	-	
308.	556-52-5	209-128-	Glycidol/2,3-epoxy-1-propanol 3		50	16.5	100	33	C1B; M2; 1b
309.	7440-58-6	231-166-4	Hafnium		0.2	-	0.5	-	
310.	151-67-7	205-796-	Halothane/2-Bromo-2-chloro-1,1,1-trifluoroethane 5		400	50	-	-	
311.	76-44-8	200-962-	Heptachlor/1,4,5,6,7,8,8-heptachlor 3a,4,7,7a-tetrahydro-3 4,7-methanoindan		0.3	-	0.6	-	C2
312.	142-82-5	205-563-	Heptane/n-Heptane 8		2085	500	-	-	Dir. 2000/39
313.0	110-43-	203-767-1	2-heptanone/Methyl amyl ketone	p	238	50	475	100	Dir. 2000/39
314.	110-54-3	203-777-6	n-Hexane		72	20	-	-	R2; Dir. 2006/15
315.	118-74-1	204-273-9	Hexachlorobenzene		0.5	-	1	-	C1B
316.	87-68-3	201-765-	Hexachloro-1,3-butadiene 5	p	-	-	0.2	0.02	
317.	67-72-1	200-666-4	Hexachloroethane		5	0.5	8	0.8	
318.	124-09-4	204-679-	Hexamethylenediamine 6		1	-	5	-	
319.	822-06-0	212-485-	Hexamethylene diisocyanate 8		0.05	0.007 1		0.14	
320.	302-01-2	206-114-	Hydrazine 9	p	0.013	0.01	-	-	C1B; Dir. 2017/2,398
321.	-	-	Aliphatic hydrocarbons (white spirit, solvent naphtha, kerosene, lamp oil, diese)		700	-	1000	-	
322.	-	-	Polycyclic aromatic hydrocarbons (fraction extractable in cyclohexane) 231-978-		0.2	-	-	-	C1B
323.	7783-07-5	9	Hydrogen selenate		0.07	0.02	0.17	0.05 Dir. 2000/39	
324.	7803-52-3	-	Stipinated hydrogen		0.2	-	0.5	-	
325.	7783-06-4	231-977-	Hydrogen sulfide/Hydrogen sulfide 3		7	5	14	10	Dir. 2009/161

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326.	1305 -62 - 0	215 -137 -	Calcium hydroxide/Calcium dihydroxide 3		1	-	4	-	Respirable fraction Dir. 2017/164
327.	118 -29 - 6	204 -241 -	N -Hydroxymethylphthalimide 4		50	7	75	10	
328.	123 -42 - 2	204 -626 - 2	4 -Hydroxy -4methyl2pentanone/Diacetone -alcohol 7 200 -909 -		150	32	250	53	
329.	75 -86 - 5	-Hydroxy - 2	-methylpropionitrile/Acetonecyanohydrin 4	p	2	0.6	10	2.9	
330.	-	-	Alkaline hydroxides (expressed in sodium hydroxide)		1	-	3	-	
331.	7580 -67 - 8	231 -484 -	Lithium hydride 3		-	-	0.02	-	Inhalable fraction Dir. 2017/164
332.	0 111 -40 -	203 -865 - 4	2,2'-iminodiethylamine/Diethylenetriamine	p	2	0.5	4	1	
333.	55 7553 - 6 - 2	231 -442 -			0.5	0.09	1	0.2	
334.	74 -88 - 4	Iodine 4 200 -819 -	Methyl iodide 5 201	p	15	2.5	25	4.2	C2
335.	78 -83 - 1	-148 - 0	Isobutanol/2-methyl 1-propanol		100	33	200	66	
336.	9 624 -83 -	210 -866 -	Methane isocyanate/Methyl isocyanate 3		0.02	0.008 0.05		0.02	R2; Dir. 2009/161
337.	78 -59 - 1	201 -126 -	Isophorone/3,5,5-trimethyl2cyclohexen-1-one 0 200 -401 -		25	4.42	50	8.84	C2
338.	58 -89 - 9		Lindane/ýHCH 2	p	0.3	-	0.5	-	
339.	01 8018 - - 7	-	Mancozeb/Ethylene-bis-dithiocarbamate of zinc and manganese		100	-	200	-	
340.	-	-	Manganese and inorganic manganese compounds (expressed in Mn)		0.2	-	-	-	Inhalable fraction Dir. 2017/164 Breathable fraction
					0.05	-	-	-	Dir. 2017/164
341.	121 -75 - 5	204 -497 -	Malathion/1,2-bis 7 (ethoxycarbonyl) ethyl O,O -dimethyl phosphorodithioate		7	-	10	-	
342.	-	-	Mercury and divalent inorganic mercury compounds, including mercuric oxide and mercuric chloride (measured as mercury)^(16)		0.02	-	-	-	1b Dir. 2009/161
343.	-	-	Mercury (organic compounds)	p	-	-	0.01	-	
344.	67 -56 - 1	200 -659 -	Methanol/Methyl alcohol 6	p	260	200	-	-	Dir. 2006/15
345.	8 108 -67 -	203 -604 -	Mesitylene/1,3,5-trimethylbenzene 4 202 -615		100	20	-	-	Dir. 2000/39
346.	97 -88 - 1		N -butyl methacrylate 1 202		150	25	250	43	
347.	97 -63 - 2	-597 -	Ethyl methacrylate 5		150	32	250	54	
348.	80 -62 - 6	201 -297 - 1	Methyl methacrylate/Methyl 2-methylpropenoate		205	50	410	100	Dir. 2009/161
349.	74 -82 - 8	200 -812 -	Methane		1200	1834 1500		2292	
350.	74 -99 - 7	7 200 -828 -	Methyl-acetylene/Propine 4 202		1300	793	1500	915	
351.	8 100 -61 -	-870 -	N -Methylaniline 9	p	7	16	10	23	
352.	75 -55 - 8	200 -878 - 7	2 -Methylaziridine/Propylenimine	p	3	-	5	-	C1B
353.	78 -78 - 4	201 -142 - 2	-methylbutane/Isopentane 8 204		3000	1000	-	-	Dir. 2006/15
354.	3 123 -51 -	-633 - 3	-methyl1 -butanol/isoamyl alcohol 5 209 -731 -		18	5	37	10	Dir. 2019/1,831
355.	6 591 -78 -	-	Methyl butyl ketone/2-hexanone 1 203 -624		200	49	300	80	R2
356.	2 108 -87 -		Methyl cyclohexane		1200	300	1500	375	
357.	42 25639 - - 3	3 247 -152 -	Methyl cyclohexanol 6		200	42	300	64	
358.	8 583 -60 -	209 -513 -	2 -Methyl cyclohexanone 6	p	250	54.5	350	76	
359.	96 -34 - 4	202 -501 - 1	Methyl chloroacetate		5	-	10	-	
360.	80 -63 - 7	201 -298 - 7	Methyl alpha chloroacrylate		2	-	5	-	
361.	4 101 -14 -	202 -918 -	4,4'Methylene-bis-(2chloro-aniline) 9	p	0.01	-	-	-	C1B Dir. 2019/983
362.	8 101 -68 -	202 -966 - 0	4,4'Methylenediphenyl diisocyanate		-	-	0.15	-	C2
363.	9 101 -77 -	202 -974 - 4	4,4'Methylene dianiline	p	0.08	-	-	-	C1B; M2 Dir. 2019/130
364.	41 27137 - - 3	248 -253 -	Methyl furan/Silvan 8 208		10	-	20	-	
365.	541 -85 -	-793 - 7 203	5-methylheptan-3-one		53	10	107	20	Dir. 2000/39
366.	- 8 5 110 -12	-737 - 5	-methylhexan - 2 -one 8 200 -471 -		95	20	-	-	Dir. 2000/39
367.	60 -34 - 4		Methyl hydrazine 4	p	0.37	-	-	-	
368.	74 -93 - 1	200 -822 -	Methyl mercaptan/Methanethiol 1		-	-	1	-	
369.	4 109 -02 -	203 -640 - 0	4-methylmorpholine/N-methylmorpholine		-	-	70	-	
370.	2 108 -11 -	203 -551 - 4	-methyl2 -pentanol/Methyl isobutyl carbinol 7	p	60	-	100	-	
371.	7 141 -79 -	205 -502 -	4Methyl-3-penten-2-one/Mesityl oxide 5 203-550-4-		50	12	100	24	
372.	108 -10 - 1	methylpentan-	2-one 1		83	20	208	50	Dir. 2000/39

373.	4	872 -50 -	212 -828 - n	-methyl-2-pyrrolidone 1	p	40	10	80	20	R1B; Dir. 2009/161
374.	9	107 -87 -	203 -528 - 1	Methyl propyl ketone/2-pentanone		250	71	300	85	
375.	9	8 -83 - 9	202 -705 - ÿ	-methylstyrene/2 -phenylpropene 0 202		246	50	492	100	Dir. 2000/39
376.		100 -80 - 1	-889 - 2	3 - Methylstyrene		250	51	350	72	
377.		23564 - 05 - 8	245 -740 - 7	Methyl thiophanate		-	-	10	-	M2
378.	75	-79 - 6	200 -902 -	Methyl trichlorosilane		1	-	3	-	
379.	9	124 -70 -	6 204 -710 -	Methyl vinyl dichlorosilane		3	-	5	-	
380.		2554 - 06 - 5	3 219 -863 -	4-Methyl-4-vinylsiloxane 1 200	p	30	-	50	-	
381.	72	-43 - 5	-779 - 9	Methoxychloro[1,1,1-trichloro-2,2di(p-methoxy-phenyl)ethane]	p	10	-	15	-	
382.	3	111 -77 -	203 -906 - 2-	(2-methoxyethoxy)-ethanol 6	p	50.1	10	-	-	R2; Dir. 2006/15
383.	9	34590 - 94 - 8	252 -104 - (2- | methoxymethylethoxy)-propanol/Dipropylene glycol 2 monomethyl ether/Dipropylene glycol methyl ether 203 -539 -	p	308	50	-	-	Dir. 2000/39
384.	2	107 -98 -		1-Methoxy-2-propanol/1-methoxypropane-2-ol 1 244 -209 -	p	375	100	568	150	Dir. 2000/39
385.	6	21087 - 64 - 9		Metribuzin/4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one 7 232 -095 -		1	-	2	-	
386.	3	7786 - 34 - 7	Fosdrin	Mevinphos/2-methoxycarbonyl-1-methylvinyl 1 phosphate/ dimethyl		0.05	-	0.15	-	
387.	-		-	Molybdenum (insoluble compounds)		5	-	10	-	
388.	-		-	Molybdenum (soluble compounds)		2	-	5	-	
389.	67	2212 - - 1	218 -661 - 0	Molinate/S-ethyl perhydroazepine-1-carbothioate		-	-	0.5	-	C2; R2
390.	43	10102 - - 9	233 -271 -	Nitric oxide 0		2.5	2	-	-	Dir. 2017/164 The limit values for nitrogen monoxide are applied under the stipulated conditions to art. yl from the Government Decision no. 584/2018*).
391.	0	630 -08 -	211 -128 -	Carbon monoxide 3		23	20	117	100	1a Dir. 2017/164 The limit values for carbon monoxide are applied under the stipulated conditions to art. yl from the Government Decision no. 584/2018*).
392.	74	-89 - 5	200 -820 -	Mono-methylamine 0		10	8	15	12	
393.	8	110 -91 -	203 -815 -	Morpholine 1		36	10	72	20	Dir. 2006/15
394.	30	8030 - 30 - 6	232 -443 -	Naphtha/Coal tar 2 202 -049 -	p	100	-	200	-	C1B; M1B
395.	91	-20 - 3		Naphthalene		50	10	-	-	C2; Dir. 91/322
396.	91	-59 - 8	5 202 -080 - 4	2 -Naphthylamine	p	-	-	-	-	Fp; C1A
397.	6	135 -88 -	205 -223 -	N - 2 -naphthylaniline/N -phenyl - 2 -naphthylamine 9		-	-	-	-	Fp; C2
398.	8	135 -64 -	205 -208 - 7	Naphthol AS -SW/3 -hydroxy - N - 2 -naphthyl - 2 -naphthamide		500	-	1000	-	
399.	90	-15 - 3	201 -969 - 4	1 -Naphthol	p	10	-	15	-	
400.	1	463 -82 -	207 -343 -	Neopentane 7		3000	1000	-	-	Dir. 2006/15
401.	-		-	Nickel and compounds (expressed in Ni)		0.1	-	0.5	-	C2
402.	39	13463 - - 3	236 -669 -	Nickel tetracarbonyl 2 200		0.05	-	0.1	-	C2; 1b
403.	54	-11 - 5	-193 - 3 216	Nicotine/3-(N-methyl-2-pyrrolidinyl)pyridine	p	0.5	-	-	-	Dir. 2006/15
404.	64	1712 - - 7	-983 - 6 210	Isopropyl nitrate		20	5	25	7	
405.	4	627 -13 -	-985 -	n -Propyl nitrate 0 202		75	17.5	100	23	
406.	6	100 -01 -	-810 - p	-Nitroaniline 1	p	3	0.5	5	0.9	
407.	4	100 -17 -	202 -825 - p	Nitroanisole 3		5	-	10	-	
408.	98	-95 - 3	202 -716 -	Nitrobenzene 0	p	1	0.2	-	-	C2; R2; Dir. 2006/15
409.	4	627 -05 -	210 -980 -	1 - Nitrobutane 3		50	-	75	-	
410.	92	-93 - 3	202 -204 -	4-Nitrodiphenyl 7	p	-	-	-	-	Fp; C1B
411.	79	-24 - 3	201 -188 - 9	Nitroethane	p	62	20	312	100	Dir. 2017/164
412.	9	100 -12 -	202 -821 -	4 -Nitroethylbenzene 1	p	15	2	20	3	
413.	55	-63 - 0	200 -240 -	Nitroglycerin/Glycerol trinitrate 8 200 -876 -	p	0.095	0.01	0.19	0.02 Dir. 2017/164	
414.	75	-52 - 5		Nitromethane		100	40	150	60	
415.	86	-57 - 7	6 201 -684 - 5	1 - Nitronaphthalene		20	3	30	4	
416.	79	-46 - 9	201 -209 -	2 -Nitropropane 1		18	5	-	-	C1B; Dir. 2017/2,398

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417.	88-72-2	201-853-7	2-Nitrotoluene	p	10	1.8	30	5.3	C1B; M1B; R2
418.	99-08-1	202-728-3	3-Nitrotoluene	p	10	1.8	30	5.3	
419.	99-99-0	202-808-6	4-Nitrotoluene	p	10	1.8	30	5.3	
420.	62-75-9	200-549-0	N-Nitrosodimethylamine 8 205	p	-	-	-	-	Fp; C1B
421.	143-08-8	203-892-9	Nonanol/Nonyl alcohol 7 203		150	25	250	42	
422.	111-65-9		Octane		1500	322	2000	429	
423.	127-90-2	204-870-1	Octachlor dipropyl ether 4		10	-	15	-	
424.	152-16-9	205-801-0	Octamethyl pyrophosphoramide/Schradan	p	0.3	-	0.6	-	
425.	111-87-5	203-917-6	1-Octanol/Octyl alcohol 6	p	150	28	250	47	
426.	111-13-7	203-837-7	2-Octanone/Methyl hexyl ketone 1		100	19	200	38	
427.	2809-67-8	-	2-Octine		500	-	700	-	
428.	111-46-6	203-872-2	2,2'-oxybisethanol/Diethylene glycol		500	115	800	184	
429.	2238-07-5	218-802-6	2,2'-[oxybis(methylene)]-bis oxirane/Diglycidyl ether		0.5	0.1	2	0.4	
430.	47110-30-5	-	Copper oxyquinolate		5	-	9	-	
431.	1344-28-1	215-691-6	Aluminum oxide 6		2	-	5	-	(Aerosols)
432.	1303-86-2	215-125-8	Boric oxide 8		10	-	15	-	1b
433.	1306-19-0	215-146-2	Cadmium oxide 2		0.05	-	0.1	-	(smokes) C1B; M2; R2
434.	1305-78-8	215-138-9	Calcium oxide 9		1	-	4	-	Respirable fraction Dir. 2017/164
435.	1307-96-6	215-154-6	Cobalt oxide (II) 6 200		0.05	-	0.1	-	
436.	60-29-7	200-467-7	Diethyl oxide/Diethyl ether/Ethyl ether 2		308	100	616	200	Dir. 2000/39
437.	55720-99-5	-	Diphenylchlorate oxide/Hexachloro diphenyl ether	p	0.5	-	1.5	-	
438.	75-21-8	200-849-9	Ethylene oxide 9	p	1.8	1	-	-	C1B; M1B Dir. 2017/2,398
439.	1309-37-1	215-168-2	Ferric oxide		5	-	10	-	(Fumes, dusts)
440.	20619-16-3	243-922-2	Germanium oxide 0		2	-	5	-	
441.	1309-48-4	215-171-9	Magnesium oxide 9		5	-	15	-	(smokes)
442.	1003-73-2	213-714-4	N-Oxide 3-methyl pyridine		2	-	3	-	
443.	75-56-9	200-879-2	Propylene oxide; 2 1,2-Epoxypropane		2.4	1	-	-	C1B; M1B; Dir. 2017/2,398
444.	1314-61-0	215-238-7	Tantalum oxide 2		5	-	10	-	
445.	1314-13-2	215-222-5	Zinc oxide 5		5	-	10	-	(smokes)
446.	-	-	~~Nitrogen oxides, except for those provided for in points 257 and 290 233-069 - Ozone~~		5		8		
447.	10028-15-6	232-315-6	Paraffin		0.1	0.05	0.2	0.1	
448.	8002-74-2	200-271-7			2	-	6	-	(smokes)
449.	56-38-2		Parathion (ISO)/O,O-diethyl O-4-nitrophenyl phosphorothioate	p	0.05	-	0.15	-	
450.	298-00-0	206-050-3	Parathion-methyl (ISO)/O,O-dimethyl O-4-nitrophenyl phosphorothioate/di-O-methyl thiophosphate and 1-O-p-nitrophenyl/Methyl-parathion 243	p	0.1	-	0.3	-	
451.	19624-22-7	243-194-4	Pentaborane		0.05	0.02	0.15	0.06	
452.	76-01-7	200-925-4	Pentachloroethane		40	-	60	-	C2
453.	87-86-5	201-778-6	Pentachlorophenol	p	0.5	0.04	1	0.09	C2
454.	117-97-5	204-224-6	Zinc pentachlorothiophenate 1		5	-	10	-	
455.	10026-13-8	233-060-3	Phosphorus pentachloride 3		1	-	-	-	Dir. 2006/15
456.	5714-22-7	227-204-0	Sulfur pentafluoride 4 203		0.1	-	0.3	-	
457.	109-66-0	203-692-4	Pentane		3000	1000	-	-	Dir. 2006/15
458.	71-41-0	200-752-1	1-Pentanol		100	-	200	-	
459.	1314-56-3	215-236-0	Diphosphorus pentaoxide 1		1	-	-	-	Dir. 2006/15
460.	1314-62-1	215-239-8	Vanadium pentaoxide 8 215		0.05	-	0.1	-	(smokes) M2; R2
461.	1314-62-1	215-239-8	Vanadium pentaoxide 8 215		0.1	-	-	-	(V_2O_5 powders) M2; R2
462.	1314-80-3	215-242-4	Diphosphorus pentasulphide 4		1	-	-	-	Dir. 2006/15
463.	594-42-3	209-840-1	Perchloromethyl mercaptan 4		0.5	-	1.5	-	
464.	8003-34-7	232-319-8	Pyrethrum		1	-	-	-	After elimination of sensitizing lactones Dir. 2006/15
465.	110-86-1	203-809-9	Pyridine 9		15	5	-	-	Dir. 91/322

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466.	29232 - 93 - 7	249 -528 -	Pirimifos -methyl/Orafon 5 203		0.5	-	2	-	
467.	110 -85 - 0	-808 -	Piperazine 3		0.1	-	0.3	-	R2: Dir. 2000/39
468.	7440 - 06 - 4	231 -116 - 1	Platinum		1	-	-	-	(Metallic) Dir. 91/322
469.	-	-	Lead and its inorganic compounds (expressed in Pb)		0.15	-	-	-	Dir. 98/24
470.	8050 - 81 - 5	-	Polydimethylsiloxane		60	-	80	-	
471.	74 -98 - 6	200 -827 - 9	Propane		1400	778	1800	1000	
472.	107 -10 - 8	203 -462 - 3	N -Propylamine/Monopropylamine		0.5	0.2	0.8	0.3	
473.	3126 - 95 - 2	221 -509 -	N -Propyl glycidyl ether 6		100	-	200	-	
474.	57 -57 - 8	200 -340 -	1,3-Propiolactone 1 203		1.5	-	-	-	C1B
475.	107 -12 - 0	-464 - 4 203	Propionitrile/Ethyl Cyanide		0.1	0.04	0.3	0.13	
476.	108 -46 - 3	-585 - 2	Resorcinol/1,3-benzenediol	p	45	10	-	-	Dir. 2006/15
477.	70281 - 37 -7	-	Tetramethyl rhodamine		70	-	-	-	
478.	-	-	Selenium and compounds (expressed in Se)		0.1	-	0.2	-	
479.	78 -10 - 4	201 -083 -	Ethyl silicate/Tetraethyl orthosilicate 8		44	5	-	-	Dir. 2017/164
480.	-	-	Tin (inorganic compounds expressed in Sn)		2	-	-	-	Dir. 91/322
481.	-	-	Tin (organic compounds)		0.05	-	0.15	-	
482.	100 -42 - 5	202 -815 -	Styrene		50	12	150	35	
483.	7704 - 34 - 9	5 231 -722 - 6	Sulfur		-	-	15	-	(Powders)
484.	7773 - 06 - 0	231 -871 -	Ammonium sulfonate 7		10	-	15	-	
485.	3689 - 24 - 5	222 -995 -	Sulfotep/O,O,O,O tetra ethyl -dithio -pyrophosphate 2	p	0.1	-	-	-	Dir. 2000/39
486.	75 -15 - 0	200 -843 -	Carbon sulfide 6	p	15	5	-	-	R2; Dir. 2009/161
487.	93 -76 - 5	202 -273 -	2,4,5T/2,4,5 trichlorophenoxy acetic acid 3 231 -135		5	-	10	-	
488.	7440 - 25 - 7	5	Tantalum		5	-	10	-	
489.	13494 - 80 - 9	236 -813 - 4	Tellurium		0.05	-	0.15	-	
490.	61788 - 32 - 7	262 -967 -	Hydrogenated triphenyl 7		19	2	48	5	Dir. 2017/164
491.	107 -49 - 3	203 -495 -	TEPP/Tetraethyl -pyrophosphate	p	0.05	-	0.1	-	
492.	33693 - 04 - 8	3 251 -637 -	Terbumeton 8		0.5	-	1	-	
493.	8006 - 64 - 2	232 -350 -	Turpentine 7 216	p	400	-	500	-	
494.	1634 - 04 - 4	-653 - 1 202	Tert-butyl methyl ether/2-methoxy-2-methylpropane		183.5	50	367	100	Dir. 2009/161
495.	98 -51 - 1	-675 - 9 201	4-tert butyl toluene		45	7.5	60	10	
496.	79 -27 - 6	-191 -	1,1,2,2 Tetrabromoethane/Acetylene tetrabromide 5		10	-	15	-	
497.	76 -11 - 9	200 -934 -	1,1,1,2 Tetrachloro-2,2-difluoro ethane 0		3000	303	4000	404	
498.	76 -12 - 0	200 -935 -	1,1,2,2 Tetrachloro-1,2-difluoro ethane 6		3000	303	4000	404	
499.	79 -34 - 5	201 -197 -	1,1,2,2 Tetrachloroethane 8	p	20	3	30	4	
500.	630 -20 - 6	211 -135 -	1,1,1,2 Tetrachloroethane 1	p	20	3	30	4	
501.	127 -18 - 4	204 -825 -	Tetrachlorethylene 9	p	138	20	275	40	Dir. 2017/164
502.	56 -23 - 5	200 -262 -	Carbon tetrachloride/tetrachloromethane 8	p	6.4	1	32	5	C2; Dir. 2017/164
503.	7550 - 45 - 0	231 -441 -	Titanium tetrachloride 9 201		1	-	3	-	
504.	78 -00 - 2	-075 -	Lead tetraethyl 4 203 -726	p	0.01	-	0.03	-	
505.	109 -99 - 9		Tetrahydrofuran 8 204	p	150	50	300	100	C2; Dir. 2000/39
506.	119 -64 - 2	-340 - 2 208	1,2,3,4 Tetrahydronaphthalene/Tetraline		100	-	200	-	
507.	509 -14 - 8	-094 -	Tetranitromethane 7		3	0.4	6	0.8	
508.	479 -45 - 8	207 -531 -	Tetryl/N -methyl - N -2,4,6 tetranitro aniline 9 244 -058 -	p	1	-	1.5	-	
509.	20816 - 12 - 0		Osmium tetraoxide 7		0.001	-	0.003	-	
510.	-	-	Thallium (soluble compounds expressed in Tl) 205	p	-	-	0.05	-	
511.	137 -26 - 8	-286 -	Thiram/Tetramethyl thiuram disulfide 2 231 -139 -		2	-	5	-	
512.	7440 - 29 - 1		Thoriu		0.02	-	0.05	-	
513.	7440 - 32 - 6	7 231 -142 -	Titan 3		10	-	15	-	
514.	108 -88 - 3	203 -625 - 9	Toluene	p	192	50	384	100	R2; Dir. 2006/15
515.	-	-	Toluenediamine (mixture of isomers) 209 -544 -		5	1	10	2	
516.	584 -84 - 9		Toluene-2,4-diisocyanate/2-methyl-m-phenylene diisocyanate 5		0.07	0.009 0.15		0.02	C2

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517.	7	119 -93 -	204 -358 - 4	4' -bi - o -toluidine/o -tolidine 0	p	-	-	-	-	Fp; C1B
518.	9	5 -53 - 4	202 -429 - o	-Toluidine/2 -aminotoluene 0	p	0.5	0.1	-	-	C1B; Dir. 2017/2,398
519.	0	106 -49 -	203 -403 - 1	p -Toluidine/4-aminotoluene	p	4.46	1	8.92	2	C2 Dir. 2019/1,831
520.		8001 - 35 - 2	232 -283 -	Toxaphene	p	0.3	-	0.5	-	C2
521.		43121 - 43 - 3	3 256 -103 -	Triadimefon/1-(4-chlorophenoxy)-3,3-dimethyl-1-(1,2,4-triazol-1-yl)butanone 8 203-048-		3	-	5	-	
522.		102 -70 -		Trialylamine 2	p	1	-	4	-	
-	523.	5 102 -82	203 -058 -	Tributylamine 7		-	-	20	-	
524.	8	126 -73 -	204 -800 - 2	Tributyl phosphate		2	-	5	-	C2
525.	7	5 -87 - 6	200 -911 - 5	Trichloroacetaldehyde/Chloral		2	-	3	-	
526.		120 -82 - 1	204 -428 -	1,2,4 -trichlorobenzene 0 200	p	15.1	2	37.8	5	Dir. 2000/39
527.	7	1 -55 - 6	-756 - 1,1,1	-trichloroethane/Methyl chloroform 3 200 -149 -		555	100	1110	200	Dir. 2000/39
528.	5	2 -68 - 6		Trichlorfon/Dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate 3		1	-	2	-	
529.	7	9 -01 - 6	201 -167 -	Trichlorethylene 4	p	54.7	10	164.1	30	C1B; M2 Dir. 2019/130
530.		25267 - 55 - 4	-	2,4,5 Copper trichlorophenolate		0.5	-	1.5	-	
531.	7	5 -69 - 4	200 -892 -	Tricolorfluoromethane/Freon 11 3		4000	625	5000	781	
532.	7	6 -06 - 2	200 -930 -	Trichloronitromethane/Chloropicrin 9 203		0.5	0.07	0.7	0.1	
533.	0	108 -77 -	-614 - 2,4,6 -	trichloro -1,3,5 triazine/cyanuryl chloride 9 247 -216 - 3 202 -634		-	-	1	0.1	
534.	29	25735 - 29 - 9	ÿ,ÿ,ÿ	Trichloropropane	p	100	16.5	150	25	
535.	9	8 -07 - 7	-trichlorotoluene	/Trichloromethyl benzene/ Benzyl trichloride/Phenylchloroform 5 200 -936 -		2	0.3	5	0.7	C1B
536.	7	5 -13 - 1	-	1,1,2 Trichlor -1,2,2 trifluoroethane/Freon 113 1 231 -749		5000	-	7000	-	
537.	12	7719 - 12 - 2		Phosphorus trichloride 3		2	-	5	-	
538.	87	10025 - 87 - 3	233 -046 - 7	Phosphoryl trichloride/Phosphorus oxychloride		0.064	0.01	0.13	0.02 Dir. 2019/1,831	
539.	9	3982 - 91 - 0	223 -622 - 6	Thiophosphoryl trichloride/ Thiophosphoryl chloride/Phosphorus thiotrichloride		2	-	5	-	
540.	7	1330 - 78 - 5	215 -548 - o	Tricresylphosphate 8	p	0.1	-	2	-	
541.	8	121 -44 -	204 -469 -	Triethylamine 4	p	8.4	2	12.6	3	Dir. 2000/39
542.	2	5224 - 28 - 7	-	Triethyl lead	p	0.01	-	0.03	-	
543.	6	112 -27 -	203 -953 -	Triethylene glycol/[2,2'-(ethylenedioxy)diethanol]		700	114	1000	163	
544.	3	112 -24 -	2 203 -950 -	Triethylenetetramine/3,6-diazaoctanethylenediamine		10	1.7	20	3.3	
545.	6	115 -86 -	6 204 -112 - 2	Triphenylphosphate		2	-	4	-	
546.	7	5 -63 - 8	200 -887 -	Trifluoro-mono-bromo methane 6		5000	-	7000	-	
547.	54	7783 - 54 - 2	232 -007 -	Nitrogen trifluoride 1		20	-	30	-	
548.	07	7637 - 07 - 2	231 -569 -	Boron trifluoride 5 232		-	-	3	-	
549.	91	7790 - 91 - 2	-230 -	Chlorine trifluoride 4		-	-	0.4	-	
550.	7	5 -50 - 3	200 -875 -	Trimethylamine 0		4.9	2	12.5	5	Dir. 2019/1,831
551.	8	526 -73 -	208 -394 - 8	1,2,3-trimethylbenzene		100	20	-	-	Dir. 2000/39
552.	9	5 -63 - 6	202 -436 - 9	1,2,4-trimethylbenzene		100	20	-	-	Dir. 2000/39
553.	7	5 -77 - 4	200 -900 - 5	Trimethylchlorosilane		3	-	10	-	
554.	4	121 -82 -	204 -500 - 1	Trimethylene -trinitramine/Hexogen	p	2	-	6	-	
555.	7	118 -96 -	204 -289 -	2,4,6 Trinitrotoluene/TNT 6		0.5	-	1	-	
556.	2	102 -69 -	203 -047 -	Tripropylamine 7		3	0.5	4	0.7	
557.	38	7440 - 38 - 7	231 -143 -	Tungsten 9		2	-	6	-	
558.	62	63148 - 62 - 9	-	Polydimethyl-siloxane oil	p	200	-	300	-	
559.	-		-	Mineral oils		5	-	10	-	Other than those of heading 572
560.	15	25013 - 15 - 4	246 -562 -	Vinyl toluene 2		300	-	400	-	
561.	81	4 -81 - 2	201 -377 -	Warfarin 6	p	0.1	-	0.3	-	1a
562.	20	1330 - 20 - 7	215 -535 -	Xylene, mixed isomer, pure 7	p	221	50	442	100	Dir. 2000/39
563.	3	108 -38 -	203 -576 - m	xylene 3	p	221	50	442	100	Dir. 2000/39
564.	9	5 -47 - 6	202 -422 - o	-xylene 2	p	221	50	442	100	Dir. 2000/39
565.	3	106 -42 -	203 -396 - 5	p -xylene	p	221	50	442	100	Dir. 2000/39
566.		576 -26 - 1	209 -400 -	2,6 Xylenol 1		15	-	20	-	

567.	1300-73-8	215-091-	Xylidine 4	p	1	-	2	-	
568.	12122-67-7	235-180-	Zineb/Zinc Ethylene-bis-dithiocarbamate 1		0.5	-	1	-	
569.	-	-	Zirconium and compounds (expressed in Zr)		5	-	10	-	
570.	-	-	Exhaust emissions of diesel engines		0.05^(17)	-	-	-	Dir. 2019/130 The limit value applies from February 21, 2023. For underground mining and tunnel construction, the limit value applies from February 21, 2026.
571.	-	-	Mixtures of polycyclic aromatic hydrocarbons, especially those containing benzo[a]pyrene, which are carcinogenic agents, as defined in art. 5, point 1 of P Government Decision no. 1,093/2006 with subsequent amendments and additions		-	-	-	-	Dir. 2019/130 C1B
572.	-	-	Mineral oils that have previously been used in internal combustion engines to lubricate and cool moving parts in the engine	p	-	-	-	-	Dir. 2019/130

^(1) CAS: Chemical Abstracts Service registration number.
^(2) EC (EINECS): registration number from the European Inventory of Existing Chemical Substances placed on the market/European Inventory of Existing Chemical Substances.

^(3) The "P" designation accompanying the occupational exposure limit value indicates a substantial contribution to the total body load through possible dermal exposure.
^(4) Measured or calculated against a reference period of eight hours as a time-weighted average (TWA).

^(5) Short-term exposure level. Limit value above which there must be no exposure and which refers to a period of fifteen minutes, unless otherwise specified.
^(6) mg/mc: milligrams per cubic meter of air. For chemical substances in gas or vapor phase, the limit value is expressed at 20°C and 101.3 kPa ("760 mm Hg"), unless otherwise stated.

^(7) ppm: parts per million, volumes of contaminant per 10^6 volumes of air (ml/m3).
^(8) The notations in this column have the following meaning:
– C1A, C1B - can cause cancer [according to Regulation (EC) no. 1,272/2008 - annex VI];

– C2 - likely to cause cancer [according to Regulation (EC) no. 1,272/2008 - annex VI];

– M1B - can cause genetic abnormalities [according to Regulation (EC) no. 1,272/2008 - annex VI];
– M2 - likely to cause genetic anomalies [according to Regulation (EC) no. 1,272/2008 - annex VI];

– R1A, R1B - may harm the fetus; may harm fertility [according to Regulation (EC) no. 1,272/2008 - annex VI];
– R2 - likely to harm fertility [according to Regulation (EC) no. 1,272/2008 - annex VI];
– Fp - Very dangerous. The concentration (presence in the work environment) of these chemical agents must be practically zero.
– Directive XXXX: It indicates the European directive in which an indicative limit value was established for the respective chemical agent, at European level. The number of the directive can also be accompanied by the name in Romanian/ English of the respective chemical agent, under which we find it in that directive.
– Transitional measures are indicated.
– State of the chemical agent, type of measured fraction.
^(9) Short-term exposure limit value in relation to a reference period of 1 minute.
^(10) For sulfuric acid: When choosing an appropriate exposure monitoring method, consideration should be given to the limitations and potential interferences that may occur in the presence of other sulfur compounds.
^(11) For sulfuric acid: The pulverized liquid particles are defined as the thoracic fraction.
^(12) During exposure monitoring, the relevant biological monitoring values should be taken into account, as suggested by the Scientific Committee for the Establishment of Occupational Exposure Limits to Chemical Agents (SCOEL).

^(13) The substance can cause skin and respiratory sensitization.
^(14) Inhalable fraction. The occupational exposure limit value is related to the respirable fraction in the situation where, on the date of entry into force of this, a biomonitoring system is implemented with a biological limit value of a maximum of 0.002 mg Cd/g creatinine in urine.
^(15) The substance may cause skin sensitization.

^(16) For mercury: During exposure monitoring for mercury and its bivalent inorganic compounds, the relevant biological monitoring techniques that supplement the occupational exposure limit values must be taken into account.

^(17) Measured as elemental carbon.

*) Until August 21, 2023, the limit values from annex no. 3 to Government Decision no. 584/2018 for the amendment of Government Decision no. 1.218/2006 regarding the establishment of minimum safety and health requirements at work to ensure the protection of works against the risks related to the presence of chemical agents.

The sign "/" in column 4: separates the synonymous names of the same chemical agent.

Appendix no. 2

BIOLOGICAL LIMIT VALUES

1. Lead and its ionic compounds

1.1. Biological monitoring must include the measurement of blood lead (PbB) based on absorption spectrometry or a method leading to equivalent results. Mandatory biological limit values are indicated in point 2 position 43.

The biological value of 70 µg Pb/100 ml blood is a restrictive value.

1.2. Medical supervision requires special measures if:

– the exposure involves a lead concentration in the air higher than 0.075 mg/m3, calculated as a time-weighted average for a period of 40 hours per week; or

– a level of lead in the blood of more than 40 µg Pb/100 ml of blood is found in workers.

1.3. The practical indications for biological monitoring and medical supervision must be developed according to art. 44 of Government Decision no. 1.218/2006, with subsequent amendments and additions. These must include recommendations regarding biological indicators (for example, ALAU, ZPP, ALAD) and biological monitoring strategies.^1^1 The text refers to the former art. 44 which was repealed by Government Decision no. 157/2020 for the amendment of Government Decision no. 1.218/2006 regarding the establishment of minimum safety and health requirements at work to ensure the protection of workers against the risks related to the presence of chemical agents, as well as for the modification and completion of Government Decision no. 1.093/2006 regarding the establishment of the minimum security and health requirements for the protection of workers against risks related to exposure to carcinogenic or mutagenic agents at work.

2. Table of mandatory biological limit values (MLBOs)

No. crt.	Substance 1.	Biological indicator	Biological material	Collection time urine end of	VLBO	CLAIMS
	Acetone	Acetone	shift urine end of shift	urine end of shift urine	50 mg/l	
2.	Isopropyl alcohol	Acetone	end of shift blood end	of shift urine end of	50 mg/l	
3.	Methyl alcohol	Methanol	shift blood end of shift	urine end of shift urine	6 mg/l	
4.	aluminum	aluminum	weekend hair weekend	of week urine end of	200 µg/l	
5.	Aldrin	Aldrin	shift urine end of change	urine end of change	10 µg/l	
6.	Aniline	p-Aminophenol	urine urine blood urine		10 µg/l	
		Methemoglobin			1.5% total Hb	
7.	antimony (antimony)	Antimony			1 mg/l	
8.	Arsenic and AsH_3	arsenic			50 µg/g C	
					0.5 mg/100 g	
9.	Benzene	s-Phenyl mercapturic acid			25 µg/g C	
		Total phenols			50 mg/l	
		t, t muconic acid			500 µg/g C	
10.	Beryllium	Benzidine		-	absent	
11.	Benzidine	Beryllium		end of shift end of shift	2 µg/l	
12.	Methyl bromide	Bromine		end of shift end of shift	2 mg/100 ml	
13.	Cadmium and inorganic compounds	Cadmium		end of shift end of shift	2 µg/g C 5	SCHOOL
			blood	end of shift end of shift	µg/l	
		PROTEIN	urine	end of shift during work	2 mg/l	
14.	Chlorobenzene	4-Total chlorocatechol p-	urine	weekend weekend	150 mg/g C	
		Total chlorophenol	urine	weekend weekend	25 mg/g C	
15.	Methylene chloride	COHb	blood	weekend end of shift	5% Hb	
		Methylene chloride	blood	end of shift end of end	1 mg/l	
		Methylene chloride	urine	of week shift end of	0.3 mg/l 10	SCHOOL
16.	Chrome	Chromium	urine	shift weekend end of	µg/g C	
			urine	shift end of shift end of shift	30 µg/g C	
17.	Cobalt	Cobalt	urine	end of shift end of shift end	15 µg/l	
			blood	of shift	1 µg/l	
18.	DDT 19.	DDT	blood		20 µg/100 ml	
	Dieldrin	Dieldrin	blood		10 µg/100 ml	
20.	1,4 Dichlorobenzene	2.5 Total dichlorophenol	urine		150 µg/g C	
21.	N,N-Dimethyl acetamide	N-Methyl acetamide	urine		30 µg/g C	
22.	N,N-Dimethyl formamide	Methyl formamide	urine		15 mg/l	
23.	ethylbenzene	Mandelic acid	urine		1.5 g/g C	
24.	Phenol	Total phenols	urine		120 mg/g C 5	SCHOOL
25.	Fluorine and compounds	Fluorine	urine		mg/g C	
26.	halothane	Trifluoroacetic acid	urine		2.5 mg/l	
27.	hexachlorobenzene	hexachlorobenzene			150 µg/l	
28.	N-Hexane	2.5 Hexanedione	blood		5 mg/g C	
29.	Hydrazine	Hydrazine	serum urine urine		200 µg/g C	

30.	Lindane	ÿ Hexachlorocyclohexane	blood	end of shift 20 µg/l		
31. Manganese		Manganese	urine	end of shift 10 µg/l		
32.	Mercury and compounds	Mercury	blood	end of shift 10 µg/l start of next shift 30 µg/g C		SCHOOL
		Mercury	urine			
33.	methyl ethyl ketone	methyl ethyl ketone	urine	end of shift 2 mg/l		
34.	methyl chloroform	Total trichloroethanol	urine	weekend 30 mg/l		
		Total trichloroethanol	blood	weekend 1 mg/l		
		Methyl chloroform	blood	end of shift 550 µg/l		
		Trichloroacetic acid	urine	weekend 10 mg/l		
35.	Carbon monoxide	COHb	blood	end of shift	5% Hb	
36.	Nickel	Nickel	urine	end of shift 3 µg/l end of shift		SCHOOL
37.	Nickel carbonyl	COHb	blood		5% Hb	
		Nickel	urine	end of shift 15 µg/l		
38.	Nitrobenzene	p-Nitrophenol total	urine	end of exchange 5 mg/g C		
		Methemoglobin p-	blood	end of shift	1.5% Hb	
39.	parathion	Nitrophenol total	urine	end of exchange 500 µg/l		
		Cholinesterase activity	blood	before the next exchange Reduction > 30%		
40.	Pentachlor phenol	Pentachlor phenol	urine	end of exchange 2 mg/g C		
41.	Organophosphorus pesticides	Cholinesterase activity	blood		Decrease > 30%	
42.	Lead	Lead	blood	end of shift end of shift	70 µg/100 ml	Directive 98/24/EC
		Lead	urine	150 µg/l		
		Lead	hair	end of shift 3 mg/cm		
		Deltaaminolevulinic acid	urine	end of exchange 10 mg/l		
		Coproporphyrins	urine	end of shift 300 µg/l		
		Free erythrocyte protoporphyrin in blood		end of exchange 100 µg/100 ml erythrocytes		
43.	Styrene	Mandelic acid	urine	end of exchange 800 mg/g C		
				start of next shift 300 mg/g C		
		Phenylglyoxalic acid	urine	end of exchange 100 mg/g C		
		Styrene	blood	end of shift 0.55 mg/l		
				start of next shift0.02 mg/l		
44.	Carbon sulfide	Urine 2-thiothiazolidine 4 carboxylic acid		end of shift 4 mg/l		
		Urine iodazide test		end of shift 0.65		
45.	tellurium	Tellurium urine		end of shift 20 µg/l		
46.	tetrachlorethylene	tetrachlorethylene	working week	before the last shift 3 ppm in the exhaled	air of a (0.435 mg/m^3) before	SCHOOL
		tetrachlorethylene	blood	the last shift of a work week end of shift and weekend end of shift	0.4 mg/l	SCHOOL
		Trichloroacetic acid	urine	end of shift end of shift and weekend end of shift end of	7 mg/l	
47.	Lead tetraethyl	Diethyl lead	urine	shift end of shift end of	25 µg/l	
		Total lead	urine	shift end exchange	50 µg/l	
48.	Trichloroethylene	Trichloroacetic acid	urine		20 mg/l	SCHOOL
49. Toluene		Hippuric acid o-	urine		2 g/l	
		Cresol	urine		3 mg/l	
50.	Uranium	Uranium	urine		10 µg/l	
51. Vanadium Xylene		VANADIUM	urine		20 µg/l	
52.		Methylhippuric acid	urine		3 g/l	

NOTES:

C - urinary creatinine

Hb - hemoglobin

COHb - carboxyhemoglobin

SCOEL - Scientific Committee for Occupational Exposure Limits

Directive 98/24/CE - the directive in which the relevant biological limit value was established at the Union level Europeans

Appendix no. 3

PROHIBITIONS

It is prohibited to produce, manufacture or use in the workplace the chemical agents presented below, as well as the activities that involve them. Prohibitions do not apply if the chemical agent is present in another chemical agent or is a waste,

if its concentration value is lower than the limit value of 0.1% measured in weight percent.

Chemical Agent Name CAS Number^1)	EINECS Number^2)	
2 naphthylamine and its derivatives 91-59-8	202-080-4	
4 aminodiphenyl and its derivatives 92-67-1	202-177-1	
benzidine and its derivatives 92-87-5	202-199-1	
4 nitrodiphenyl 92-93-3	202-204-7	

^1) CAS: Chemical Abstracts Service.

^2) EINECS: European Inventory of Existing Commercial Chemical Substances.

Appendix no. 4

Mandatory occupational exposure limit values for dusts and fibers

No. crt.	No. CAS No.	EC Name		Occupational exposure limit value (8 hours)^(1)	Mentions^(2)
1.	-	-	Asbestos (mixture of fibers)	According to Government Decision no. 1.875/2005, with subsequent amendments and additions	C1A
2.	-	-	Cotton, linen, hemp	1 mg/m3	inhalable fraction
3.	332-58-7	310-194-1	Kaolin (without asbestos fibers and without ÿ 1% quartz)	2 mg/m3	respirable fraction
4.	409-21-2	206-991-8	Silicon Carbide (Carborundum)	10 mg/m3	inhalable fraction
5.	-	-	Coal, coke, graphite (quartz ÿ 5%)	2 mg/m3	respirable fraction
6.	9004-34-6	232-674-9	Cellulose	10 mg/m3	inhalable fraction
7.	-	-	Cereal	4 mg/mc	inhalable fraction
8.	-	-	Portland cement	10 mg/mc	inhalable fraction
9.	-	-	Respirable crystalline silica powder	0.1 mg/m3	respirable fraction Directive 2017/2,398
10. - 11.		-	Wheat flour	0.5 mg/cm 1	inhalable fraction
-		-	ÿ-Amide fibers	fiber/cm	
12. - 13.		-	Fiberglass/wool	1 fiber/cmc	
- 14. -		-	Plaster, gypsum (quartz ÿ 1%)	10 mg/m3 1	inhalable fraction
15. - 16.		-	Furnace wool	fiber/m3 1	respirable fraction
- 17. -		-	Rockwool	fiber/m3 0.5	respirable fraction
		-	Cedar wood	mg/m3 5 mg/	inhalable fraction
		-	Softwood	m3	inhalable fraction
18. -		-	Hardwood powder	2 mg/m² ^(3)	inhalable fraction Directive 2017/2,398 Limit value 3 mg/ m3 until January 17, 2023
19. -		-	Marble, chalk (calcium carbonate) (quartz ÿ 1%)	10 mg/m3	inhalable fraction
20.	12001-26-2	601-648-2	Low (no asbestos fibers and no quartz ÿ 1%)	3 mg/m3	respirable fraction
21. -		-	Powders without specific effect	10 mg/mc 5 mg/mc	inhalable fraction respirable fraction
22.	557-05-1	209-674-9	Zinc stearate	10 mg/m3	inhalable fraction
23.	14807-96-6	238-877-9	Talc (without asbestos fibers and without quartz ÿ 1%)	2 mg/m3	respirable fraction
24. -		-	Tobacco 10 mg/m3 Refractory ceramic fibers which are carcinogenic substances in the sense of art.		inhalable fraction
25. -		-	5, point 1, lit. a) from Government Decision no. 1.093/2006, with subsequent amendments and additions	0.3 f/ml	C1B; Directive 2017/2,398

^(1) Measured or calculated against a reference period of eight hours as a time-weighted average (TWA).

^(2) The type of fraction of the powder is indicated, the number of the European directive in which the respective occupational exposure limit value was established, the classification according to Regulation (EC) no. 1.272/2008 - annex VI, as well as transitional measures.

^(3) If hardwood powders are mixed with other wood powders, the limit value applies to all wood powders present in the mixture.

NOTES:

– fibers/cmc: refers to breathable fibers that have a diameter < 3 µm (micrometers) and a fiber length > 5 µm (micrometers), and a length/diameter ratio ÿ 3/1;

– mg/mc: milligrams per cubic meter of air at 20°C and 101.3 kPa (760 mm mercury column);

– f/ml = fibers per milliliter.

NOTE: We reproduce below the provisions of the following normative acts, which are not incorporated in the republished form of Government Decision no. 1.218/2006 and which apply, further, as provisions

own of the amending acts, as well as the mentions of the transposition of the community norms into domestic law, as follows: 1) Article II and annex no. 3 to Government Decision no. 584/2018:

Article II

(1) *Starting with the entry into force of this decision and until August 21, 2023, a transition period is established in the case of underground mining operations and tunnel and well digging sites with regard to the limit values of the following chemical agents:*

a) nitrogen monoxide, no. CAS 10102-43-9;

b) nitrogen dioxide, no. CAS 10102-44-0;

c) carbon monoxide, no. CAS 630-08-0.^3

(2) *During the transition period, the limit values provided in annex no. 3, and after this period those established in annex no. 1.^4*

(3) *Starting from August 21, 2023, annex no. 3 of this decision is repealed.*

....

^3 See the corresponding positions from no. crt. 257, 390 and 391 of annex no. 1 to Government Decision no. 1.218/2006, as amended by Government Decision no. 53/2021.^4 See annex no. 1 to Government Decision no. 1.218/2006, as amended by Government Decision no. 53/2021.

Appendix no. 3

The list of limit values that apply under the conditions provided for in art. II of the judgment

No. crt.	No. crt. from annex no. 1 to Government Decision no. 1,218/2006 (without the changes made by this decision)	CASE^(1)	EC^(2) (EINECS)	Name of the chemical agent	Action cutaneous^(3)	Maximum limit value				Mentions^(8)
						8 hours^(4)		Short term^(5) (15 min.)		
						mg/mc(6)	ppm^(7)	mg/mc(6)	ppm^(7)	
1	384	10102-43-9	233-271-0	Nitrogen monoxide		30	24	-	-	Dir. 91/322^(9)
2	385	630-08-0	211-128-3	Carbon monoxide		20	17,5	30	26	1a
3	441	10102-44-0	233-272-6	Nitrogen dioxide		5	3	8	4	

^(1) CAS: Chemical Abstracts Service registration number.

^(2) EC (EINECS): registration number from the European Inventory of Existing Chemical Substances placed on the market/ European Inventory of Existing Chemical Substances.

^(3) The word "P" accompanying the occupational exposure limit value indicates the possibility of significant skin penetration.

^(4) Measured or calculated against a reference period of eight hours as a time-weighted average (TWA).

^(5) Short-term exposure level. Limit value above which there must be no exposure and which refers to a period of fifteen minutes, unless otherwise specified.

^(6) mg/ m^3: milligrams per cubic meter of air at 20°C and 101.3 kPa ("760 mm mercury column"), unless otherwise stated.

^(7) ppm: parts per million, volumes of contaminant per 10^6 volumes of air (ml/ m3).

^(8) The notation R1A shows that the respective chemical agent can harm the fetus.

^(9) Directive 91/322/ EEC is the European directive in which the respective indicative limit value for nitrogen monoxide was established at the European level.

2) Article II and the reference to the transposition of community norms into domestic law from Government Decision no. 157/2020:

Article II

(1) *Limit values of chemical agents provided for in art. 7 and 8 of Government Decision no. 1.218/2006 regarding the establishment of the minimum safety and health requirements at work to ensure the protection of workers against the risks related to the presence of chemical agents, with subsequent amendments and additions, as well as with the amendments brought by this decision, established at national level until the date of this decision, which are more restrictive than those established at community level, remain in force until they are revised.*

(2) *The Ministry of Labor and Social Protection informs the European Commission and the member states about the occupational exposure limit values and the national biological limit values provided in paragraph (1), introduced or revised.*

....

....

This decision transposes Directive (EU) 2017/2,398 of the European Parliament and of the Council of December 12, 2017 amending Directive 2004/37/EC on the protection of workers against the risks related to exposure to carcinogenic or mutagenic agents at work, published in the Journal Official Journal of the European Union (OJEU), series L, no. 345 of December 27, 2017.

3) The mention regarding the transposition of community norms into domestic law from Government Decision no. 53/2021: *This decision transposes:*

– *Directive (EU) 2019/130 of the European Parliament and of the Council of January 16, 2019 amending Directive 2004/37/EC on the protection of workers against risks related to exposure to carcinogenic or mutagenic agents at work, published in the Official Journal of of the European Union (JOUE), series L, no. 30 of January 31, 2019;*

– *Directive (EU) 2019/983 of the European Parliament and of the Council of June 5, 2019 amending Directive 2004/37/EC on the protection of workers against risks related to exposure to carcinogenic or mutagenic agents at work, published in the Official Journal of of the European Union (JOUE), series L, no. 164 of June 20, 2019;*

– Commission *Directive (EU) 2019/1,831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to* Council *Directive 98/24/EC and amending Directive 2000/39/EC of Commission, published in the Official Journal of the European Union (OJEU), series L, no. 279 of October 31, 2019.*
