Briefing

EU Legislation in Progress

February 2017



Limits on exposure to carcinogens and mutagens at work

OVERVIEW

The European Commission proposes to amend Directive 2004/37/EC by expanding its scope and by including and/or revising occupational exposure limit values for a number of cancer-causing chemical agents. According to the Commission, this would improve workers' health protection, increase the effectiveness of the EU framework and promote clarity for economic operators.

Overall, the proposal has received a broad welcome from stakeholders.

The Council reached a general approach on 13 October 2016. The European Parliament's EMPL Committee rapporteur has presented her draft report, which was considered in December. A total of 196 amendments have been tabled on the Commission proposal. The Committee vote is scheduled for 27-28 February 2017.

Proposal for a Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

Committee responsible: Employment and Social Affairs (EMPL) COM(2016) 248

13.5.2016

Rapporteur: Marita Ulvskog (S&D, Sweden)

2016/130(COD)

Shadow rapporteurs: Claude Rolin (EPP, Belgium)

Anthea McIntyre (ECR, United Kingdom)

Renate Weber (ALDE, Romania)
Patrick Le Hyaric (GUE/NGL, France)
Karima Delli (Greens/EFA, France)

procedure (COD) (Parliament and Council on equal footing – formerly

Ordinary legislative

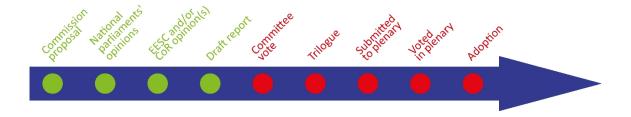
Laura Agea (EFDD, Italy)
Joëlle Mélin (ENF, France)

Vote on draft report in EMPL

'co-decision')

Next steps expected: Vote on draft re

Committee



EPRS | European Parliamentary Research Service

Author: Nicole Scholz **Members' Research Service** PE 599.244

Introduction

On 13 May 2016, the European Commission presented its proposal to amend <u>Directive</u> 2004/37/EC (the Carcinogens and Mutagens Directive – CMD). The proposal is among the priority actions of the <u>Commission Work Programme</u> for 2016 and is meant to contribute to delivering on the objective of a <u>'Social Triple A'</u> rating for Europe.¹ According to the Commission, the aims of the proposal are to:

- improve workers' health protection by reducing occupational exposure to chemical agents that may cause cancer or mutations ('carcinogens' and 'mutagens');
- increase the effectiveness of the EU framework for protecting workers by updating it on the basis of scientific expertise and data; and
- achieve more balanced EU-wide protection of workers against carcinogens, while securing greater clarity and a more level playing field for economic operators.

The Commission envisages to proceed in two steps, namely the current proposal and another related proposal by the end of 2016. (For more details, see 'The proposed changes and their potential impact', below).

Context

Cancer is the leading cause (53%) of work-related deaths in the EU. The most common types of occupational cancer include lung cancer, mesothelioma² and bladder cancer. The World Health Organization (WHO) estimates that every tenth lung cancer death is closely related to workplace risks. Cancer exposure registers (CAREX) have been established in order to obtain a more comprehensive picture of occupational exposures. Work-related cancers may be prevented by reducing or eliminating exposure to certain carcinogens. Occupational exposure usually involves a combination of factors, however, and it can be difficult to establish a causal relationship between cancer cases and exposure to a specific carcinogen.

Covenant on raising awareness of risks from exposure to carcinogens

On 25 May 2016, the Austrian Federal Ministry of Labour, Social Affairs and Consumer Protection, BusinessEurope, the Dutch Ministry of Social Affairs and Employment, the European Agency for Safety and Health at Work (EU-OSHA), the European Trade Union Congress (ETUC) and the European Commission signed a covenant, the Roadmap on Carcinogens 2016-2019, in which they committed to raise awareness of the risks arising from exposure to carcinogens in the workplace and to exchange best practice.

Existing situation

The Carcinogens and Mutagens Directive sets general minimum requirements to eliminate or reduce exposure to the chemical agents falling within its scope: employers must identify and assess exposure-associated risks for workers; where risk occurs, exposure must be prevented. Where it is technically possible, the process or agent concerned must be substituted with a non-hazardous or less hazardous process or agent. Where substitution is not possible, chemical carcinogens must be used in a closed system, or worker exposure must be reduced to as low a level as is technically possible. Employers also have the obligation to ensure that occupational exposure limit values (OELs) are not exceeded.

The provisions of the directive apply to chemical agents that 'may cause cancer' or are 'suspected of causing cancer' according to the criteria set out in Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (the CLP Regulation), and also to the substances, mixtures and processes referred to in Annex I of

the directive, which currently has five entries.³ These are what are referred to as <u>process-generated substances</u> (PGS) – hazardous chemical agents such as dust, fumes and gases generated during combustion or as by-products during production processes.

The directive also established occupational exposure limit values for certain carcinogens and mutagens, with a view to protecting workers. It stipulates that such values need to be set for those chemical agents for which they do not yet exist and be revised whenever new scientific evidence becomes available. Currently, the directive sets three⁴ occupational exposure limit values.

Parliament's starting position

In its <u>resolution</u> of 14 March 2013 on asbestos-related occupational health threats, Parliament called on the Commission to put forward a proposal to amend Directive 2004/37/EC as a matter of urgency so that 'the health of workers at risk of being exposed to carcinogens be protected and safeguarded through the promotion and exchange of best practices in prevention and diagnosis'.

In its <u>resolution</u> of 25 November 2015 on the EU strategic framework on health and safety at work 2014-2020, Parliament highlighted the importance of protecting workers against exposure to substances that are carcinogenic, mutagenic or toxic to reproduction (CMRs). It reiterated its calls on the Commission to present a proposal to amend Directive 2004/37/EC on the basis of scientific evidence, add more binding limit values, and develop an assessment system based on clear and explicit criteria. Furthermore, Parliament underlined the need for more stringent protection of workers, taking into account not only exposure periods, but also the mix of chemical and/or toxic substances to which workers are exposed. It also called on the Commission to take action on the exposure of chemical risk factors in the healthcare sector.

Preparation of the proposal

The proposal is accompanied by an Impact Assessment (IA), including an Executive Summary as well as a negative and subsequent positive opinion on the IA by the Regulatory Scrutiny Board. An analysis of the IA is provided in the EPRS Initial Appraisal: while acknowledging that the Commission has provided sound reasoning with a well-developed methodology, it finds that the proposed range of options limits the scope of the analysis. The Initial Appraisal concludes that the added value of Options 3 and 4 is not evident; that more information on the consultation with the Scientific Committee on Occupational Exposure Limits (SCOEL) and the Advisory Committee on Safety and Health at work (ACSH) would have been welcomed to better understand how the OELs were set; and that it is not entirely clear why the Commission has launched this proposal before completing the ex-post evaluation of the occupational safety and health (OSH) framework for the 2007-2012 period, undertaken within the Regulatory Fitness and Performance Programme (REFIT).

The IA was preceded by a two-stage consultation of the social partners in accordance with Article 154 of the Treaty on the Functioning of the European Union (TFEU): one launched in April 2004 and one in April 2007. The process of reviewing and setting limit values involved collecting expertise from the SCOEL and the ACSH. Their input and the results of a 2011 <u>study</u> by the Institute of Occupational Medicine (IOM) on behalf of the European Commission fed into the proposal.

The Commission's <u>Inception Impact Assessment</u> (IIA) points to the need for 'substantial improvement' to further reduce work-related exposure to carcinogenic substances in

particular. Three issues are identified: significant exposure of workers to carcinogens; an outdated directive that needs updating; and negative consequences of inadequate occupational exposure limit values for workers and businesses across the EU. The IIA envisages proceeding in two stages: first, widening the scope of the directive and establishing limit values for a number of substances; and second, including more substances and establishing limit values for additional substances, once more data becomes available from the results of another study. (For a detailed analysis, see the EPRS Implementation Appraisal).

The proposed changes and their potential impact

The measures put forward

Firstly, the Commission plans to bring within the scope of the directive a number of chemical agents that are recognised as human carcinogens in countries outside the EU, such as the USA, or by international organisations, such as the WHO's International Agency for Research on Cancer (IARC), but that are not yet classified under the current EU system.⁵ The current proposal would include occupational exposure to respirable crystalline silica dust (RCS)⁶ (in Annex I) and establish a corresponding limit value, expressed as maximum concentrations in workplace air (Annex III). RCS would be added as a process-generated substance, meaning dust created by mining, cutting or crushing of materials such as concrete, bricks, or rocks. Crystalline silica in the form of quartz or cristobalite dust is a leading cause of occupational lung cancer and classified by the IARC as carcinogenic to humans (Group 1).

Secondly, the proposal would establish EU-wide occupational exposure limit values for a further 10 carcinogens, so as to reflect the latest scientific evidence. National limit values exist for some of the chemical agents considered in the initiative but, where they exist, they vary considerably. For example, while most Member States have set limits for ethylene oxide and acrylamide, less than half have done so for bromoethylene/vinyl bromide or o-toluidine.⁸

Thirdly, two of the three existing limit values – those for hardwood dusts and vinyl chloride monomer – would be revised in the light of more recent scientific data.

In addition to the current proposal introducing and/or revising limit values for 13 priority chemical agents,⁹ the Commission has in the meantime put forward a <u>second proposal</u> covering another batch of seven agents, for which additional analysis had still to be conducted. It will be dealt with under a separate <u>legislative procedure</u>.

The impact

According to the Commission's Explanatory Memorandum to the proposal, the measures would prevent workers from getting avoidable work-related cancer and would decrease the economic burden in terms of health costs. The cancer deaths avoided would be mainly those relating to respirable crystalline silica, chromium VI and refractory ceramic fibres. (For example, it is estimated that the proposed limit value for respirable crystalline silica dust – 0.1 milligrams per cubic metre (mg/m³) – would prevent 99 000 cancer deaths by 2069). The Commission argues that the proposal would benefit workers in the construction sector, in particular, which accounts for almost 70% of all workers exposed to respirable crystalline silica. Other sectors that would benefit from the measures include: chemicals manufacturers; manufacturers of rubber products; the aeronautic, automotive and furniture industries; manufacturers of food products and textiles; the wood working industry; and the healthcare sector and hospitals. According to the

Impact Assessment, the measures would result in monetised health benefits (in terms of avoided cancer registrations and deaths) of €12-89 billion.

Moreover, according to the Commission, the introduction of EU-wide occupational exposure limit values would help employers avoid costs that could arise in the case of non-compliance and thus negatively affect their businesses in the long term. Since national OELs already exist for several of the chemical agents covered by the proposal, establishing the limit values provided for in the proposal would not impact companies in those Member States that have equal or lower limit values. However, businesses in Member States that currently have higher limit values may be faced with operating costs for putting into place additional protective and preventive measures. This would be the case, in particular, for chromium (VI) compounds and respirable crystalline silica. For the latter, the total costs to businesses of introducing a limit value of 0.1 mg/m³ are estimated to be €3.5 billion until 2069; for the remaining 12 substances, costs would be minimal. Furthermore, the proposal would help to mitigate financial losses incurred by the Member States' social security systems, which bear the burden and cost of occupational ill health resulting from workers' exposure to hazardous substances (such as healthcare costs for treatment and rehabilitation as well as expenditure on inactivity and early retirement and compensation for recognised occupational diseases).

The <u>European Agency for Safety and Health at Work</u> considers that the proposal will encourage cross-border employment by reducing the differences between Member States in terms of workers' health protection.

Advisory committees

The European Economic and Social Committee (EESC) adopted its <u>opinion</u> on the proposal on 21 September 2016. It decided not to draw up a new opinion on the subject, referring instead to the position it had taken in three previous opinions.¹¹

The Committee of the Regions has not yet delivered an opinion.

National parliaments

The <u>deadline</u> for national parliaments to submit comments on the proposal was 12 July 2016, and none submitted a reasoned opinion. A number of chambers submitted comments, which show broad support for the proposal, nonetheless with some specific qualifications. The <u>German Bundesrat</u> asks the Commission to press on with the costbenefit analyses of the remaining 12 agents. It does not share the Commission's view that Directive 2004/37/EC and the REACH Regulation are complementary, arguing for better cooperation of the European institutions in charge of risk assessments so as to avoid duplication of work and achieve clear legislation. The <u>Italian Senate</u> has doubts as to whether medical records should be kept for at least 40 years, as per Article 15 of Directive 2004/37/EC. Moreover, it would like to see the introduction of a provision banning carcinogens or mutagens at work for a certain period of time or until scientific developments make it possible to further reduce or wholly remove hazard for workers; as well as of specific occupational exposure limits according to sector, industry or type of use. The <u>UK House of Commons</u> acknowledges that there are questions as to the potential costs and benefits of the changes, notably as regards hardwood dust exposure.

Stakeholders' views

This section aims to provide a flavour of the debate and is not intended to be an exhaustive account of all different views on the proposal. Additional information can be found in related publications listed under 'EP supporting analysis'.

The European Cancer Patient Coalition (ECPC) sees the proposal as 'very positive' since it will enable the revision of the directive 'after 12 years of paralysis'. It considers the directive 'a very important legislative instrument to fight health inequalities'. The ECPC also underlines the need to ensure early diagnosis of work-related deadly cancers.

The European Trade Union Confederation (ETUC) considers the proposal 'a significant step forward', although it finds some exposure limits inadequate. It deplores the fact that some substances on the <u>list of carcinogens</u> for which it has demanded workplace exposure limits are not included. It also notes that the 13 substances that were selected relate mainly to male exposures, whereas the ETUC list also covers agents to which women are most exposed. The European Trade Union Institute (ETUI), while welcoming the proposal, believes that it does not go far enough. It cites the example of crystalline silica, where the Commission proposes an occupational exposure limit value of 0.1 milligrams per cubic metre, which, in ETUI's view, would not be sufficient to protect the 5 million workers exposed to the substance.

The Industrial Minerals Association – Europe (IMA-Europe) welcomes the proposal, and especially the fact that it acknowledges the NEPSI¹² agreement as a valuable instrument to complement regulatory requirements and to support their effective implementation. In their joint reaction to the draft report from the European Parliament's EMPL Committee, several business associations – BusinessEurope, CEEMET, CEMBUREAU, ECFIA, Eurocommerce, Eurometaux, FIEC, IMA-Europe and UEAPME – criticise the approach taken, in particular: tightening limit values for a number of substances and for different substances to be covered by the directive; extending the scope of the directive to substances that are toxic to reproduction; and introducing an obligation for employers to conduct health surveillance for all workers, even after they have left a company.

Legislative process

Council

The Employment, Social Policy, Health and Consumer Affairs EU <u>Council</u> took note on 16 June 2016 of the <u>progress report</u> on carcinogens or mutagens at work. The Council reached a <u>general approach</u> at its session on 13 October.

European Parliament

The rapporteur for the EMPL Committee, Marita Ulvskog (S&D, Sweden), published her draft report on 29 November 2016 (see summary of <u>key points</u>). A total of 196 amendments have been tabled on the Commission proposal. The main aspects currently under discussion are:

- Should <u>reprotoxins</u> (substances that are toxic to reproduction) be brought within the scope of the directive?
- Should the scope of the directive be widened to include a number of additional substances, which should be subject to regular monitoring and evaluation?
- Should the distinction between hardwood dust and softwood dust be removed?
- Should stricter limit values be set for seven of the substances (respirable crystalline silica, chromium VI compounds, hardwood dust, refractory ceramic fibres, benzene, acrylamide and 1,3-butadiene), with transition periods for some

of them? Conversely, should the limit values for two of the substances (chromium VI and crystalline silica) be loosened or deleted, respectively?

- Should Member States systematically collect data from employers, and should such data be transmitted to the Commission?
- Should there be mandatory life-long health surveillance for all exposed workers?

The Committee on the Environment, Public Health and Food Safety (ENVI) and the Committee on Legal Affairs (JURI) voted on their opinions on 31 January. An EMPL Committee vote on the draft report is scheduled for 27-28 February.

EP supporting analysis

- EPRS Implementation Appraisal: <u>Exposure to carcinogens and mutagens at work</u>, Remáč, M, June 2016.
- EPRS Initial Appraisal of the Commission Impact Assessment: <u>Protection of workers from exposure to carcinogens or mutagens</u>, Georgescu, A with Caruso, G, July 2016.

Other sources

- Exposure to carcinogens and work-related cancer: a review of assessment methods, European Agency for Safety and Health at Work, 2014.
- <u>Protection of workers from exposure to carcinogens or mutagens at work: exposure limit values,</u> European Parliament, Legislative Observatory (OEIL).

Endnotes

- ¹ The directive is also among the pieces of legislation included in the <u>Evaluation and fitness check (FC) roadmap</u>, to be assessed (by the end of 2017) for overall effectiveness, efficiency, relevance, coherence and EU added value.
- Mesothelioma is a type of cancer that occurs in the tissue that lines the lungs and other organs (mesothelium). It is associated with exposure to asbestos.
- These are: 1. manufacture of auramine; 2. work involving exposure to polycyclic aromatic hydrocarbons present in coal soot, coal tar or coal pitch; 3. work involving exposure to dusts, fumes and sprays produced during the roasting and electro-refining of cupro-nickel mattes; 4. strong acid process in the manufacture of isopropyl alcohol; 5. work involving exposure to hardwood dusts.
- ⁴ For <u>benzene</u>, <u>vinyl chloride monomer</u> and hardwood dusts.
- ⁵ According to the Explanatory Memorandum to the proposal, Regulation (EC) No 1907/2006 (<u>REACH</u>) and the directive are legally complementary: hardwood dust and respirable crystalline silica, which are both substances generated by a work process, are beyond the scope of REACH; while REACH, on the other hand, is not intended to set limit values.
- In the 2006 'Agreement on workers' health protection through the good handling and use of crystalline silica and products containing it', respirable crystalline silica is defined as 'the mass fraction of inhaled crystalline silica particles penetrating to the unciliated airways'. See also the detailed explanation of RCS and health from a European industry perspective.
- ⁷ The ten chemical agents are: <u>1,2-epoxypropane</u>; <u>1,3-butadiene</u>; <u>2-nitropropane</u>; <u>acrylamide</u>; bromoethylene/<u>vinyl bromide</u>; <u>chromium (VI) compounds</u>; <u>ethylene oxide</u>; <u>hydrazine</u>; <u>o-toluidine</u>; <u>refractory ceramic fibres</u>.
- ⁸ For a detailed overview of the national limit values for each of the chemical agents considered, see <u>Table 1</u> in Annex 6 of the Impact Assessment.
- The Commission <u>states</u> that some of the 13 priority agents identified, such as respirable crystalline silica, hardwood dusts, hydrazine or chromium (VI) compounds, affect very high numbers of workers in the EU (5.3 million, 3.3 million, 2.2 million or 916 000, respectively). Use patterns for some others may be lower, but since the ratio between the number of exposed workers and cancer cases is high, they are nevertheless considered a priority.
- ¹⁰ For an overview table of the sectors, types of cancer caused and estimated exposure levels for the 13 chemical agents under consideration, see the European Commission <u>Fact Sheet</u>.
- In its opinions of <u>2 June 1988</u> and <u>20 October 1999</u> on the proposal for a Council Directive on the protection of workers from the risks related to exposure to carcinogens at work and in its opinion of <u>11 December 2014</u> on the Commission communication on an EU strategic framework on health and safety at work 2014-2020.
- ¹² The European Network for Silica (NEPSI) is formed by the signatories of the 2006 Agreement on workers' health protection through the good handling and use of crystalline silica and products containing it (see footnote 6).

Members' Research Service

Disclaimer and Copyright

The content of this document is the sole responsibility of the author and any opinions expressed therein do not necessarily represent the official position of the European Parliament. It is addressed to the Members and staff of the EP for their parliamentary work. Reproduction and translation for non-commercial purposes are authorised, provided the source is acknowledged and the European Parliament is given prior notice and sent a copy.

© European Union, 2017.

eprs@ep.europa.eu

http://www.eprs.ep.parl.union.eu (intranet)

http://www.europarl.europa.eu/thinktank (internet)

http://epthinktank.eu (blog)



Third edition. The 'EU Legislation in Progress' briefings are updated at key stages throughout the legislative procedure. To view earlier editions of this briefing, please see: <u>PE 595.851</u>, December 2016.

Members' Research Service