

[X1] [F1] ANNEX III

LIMIT VALUES AND OTHER DIRECTLY RELATED PROVISIONS (ARTICLE 16)

Editorial Information

X1 Substituted by Corrigendum to Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC) (codified version) (Official Journal of the European Union L 158 of 30 April 2004).

Textual Amendments

F1 Substituted by Directive (EU) 2019/130 of the European Parliament and of the Council of 16 January 2019 amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Text with EEA relevance).

A.LIMIT VALUES FOR OCCUPATIONAL EXPOSURE

Name of agent	EC No ^a	CAS No ^b	Limit values						Notation	Transitional measures
			8 hours ^c			Short-term ^d				
			mg/m ^{3e}	ppm ^f	f/ml ^g	mg/m ^{3e}	ppm ^f	f/ml ^g		
Hardwood dusts		—	2 ^h	—	—	—	—	—	—	Limit value 3 mg/m ³ until 17 January 2023
Chromium (VI) compounds which are carcinogens within the meaning of point (i) of Article 2(a) (as chromium)		—	0,005	—	—	—	—	—	—	Limit value 0,010 mg/m ³ until 17 January 2025 Limit value: 0,025 mg/m ³ for welding or plasma cutting processes or similar work processes that

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										generate fume until 17 January 2025
Refractory-ceramic fibres which are carcinogens within the meaning of point (i) of Article 2(a)	—	—	—	0,3	—	—	—	—	—	
Respirable-crystalline silica dust	—	0,1 ⁱ	—	—	—	—	—	—	—	
Benzene	200-753-71-43-2	3,25	1	—	—	—	—	—	skin ^j	
Vinyl chloride monomer	200-831-75-01-4	2,6	1	—	—	—	—	—	—	
Ethylene oxide	200-849-75-21-8	1,8	1	—	—	—	—	—	skin ^j	
1,2-Epoxypropane	200-879-75-56-9	2,4	1	—	—	—	—	—	—	
Trichloroethylene	201-167-79-01-6	54,7	10	—	164,1	30	—	—	skin ^j	
Acrylamide	201-173-79-06-1	0,1	—	—	—	—	—	—	skin ^j	
2-Nitropropane	201-209-79-46-9	18	5	—	—	—	—	—	—	
o-Toluidine	202-429-95-53-4	0,5	0,1	—	—	—	—	—	skin ^j	
4,4'-Methylenedianiline	202-974-41-77-9	0,08	—	—	—	—	—	—	skin ^j	
Epichlorohydrin	203-443-806-89-8	1,9	—	—	—	—	—	—	skin ^j	
Ethylene dibromide	203-444-106-93-4	0,8	0,1	—	—	—	—	—	skin ^j	
1,3-Butadiene	203-450-106-99-0	2,2	1	—	—	—	—	—	—	

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Ethylene dichloride	203-458-107-06-2,2		2	—	—	—	—	—	—	skin ^j	
Hydrazine	206-114-302-01-0,013		0,01	—	—	—	—	—	—	skin ^j	
Bromoethane	209-800-503-60-2,4		1	—	—	—	—	—	—	—	
Diesel engine exhaust emissions			0,05°								The limit value shall apply from 21 February 2023. For underground mining and tunnel construction the limit value shall apply from 21 February 2026.
Polycyclic aromatic hydrocarbons mixtures, particularly those containing benzo[a]pyrene, which are carcinogens within the meaning of this Directive										skin ^j	
Mineral oils that have been used										skin ^j	

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before in internal combustion engines to lubricate and cool the moving parts within the engine									
[²¹⁰ Pb] Cadmium and its inorganic compounds	—	0,001 ^k	—	—	—	—	—	—	Limit value 0,004 mg/ m ³ until 11 July 2027
Beryllium and inorganic beryllium compounds	—	0,0002 ^k	—	—	—	—	—	dermal and respiratory sensitisation ^m	Limit value 0,0006 mg/ m ³ until 11 July 2026
Arsenic acid and its salts, as well as inorganic arsenic compounds	—	0,01 ^k	—	—	—	—	—	—	For the copper smelting sector, the limit value shall apply from 11 July 2023
Formaldehyde	200-001-50-00-0	0,37	0,3	—	0,74	0,6	—	dermal sensitisation ⁿ	Limit value of 0,62 mg/ m ³ or 0,5 ppm ^c

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										for the health care, funeral and embalming sectors until 11 July 2024
4,4'-Methylene-bis (2-chloroaniline)	202-918-101-14-4,01		—	—	—	—	—	—	skin ^j	l

a EC No, i.e. Eines, ELINCS or NLP, is the official number of the substance within the European Union, as defined in Section 1.1.1.2 in Annex VI, Part 1, of Regulation (EC) No 1272/2008.

b CAS No: Chemical Abstract Service Registry Number.

c Measured or calculated in relation to a reference period of eight hours time-weighted average (TWA).

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

e mg/m³ = milligrams per cubic metre of air at 20 °C and 101,3 kPa (760 mm mercury pressure).

f ppm = parts per million by volume in air (ml/m³).

g f/ml = fibres per millilitre.

h Inhalable fraction: if hardwood dusts are mixed with other wood dusts, the limit value shall apply to all wood dusts present in that mixture.

i Respirable fraction.

j Substantial contribution to the total body burden via dermal exposure possible.

k [^{F2}Inhalable fraction.

l Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine.

m The substance can cause sensitisation of the skin and of the respiratory tract.

n The substance can cause sensitisation of the skin.]

o Measured as elemental carbon.

Textual Amendments

- F2** Inserted by [Directive \(EU\) 2019/983 of the European Parliament and of the Council of 5 June 2019 amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work \(Text with EEA relevance\).](#)

B. OTHER DIRECTLY RELATED PROVISIONS

p.m.]]