

Report number	Substance or mixture	Source of suggested OEL	OEL values evaluated	SCoEL recommendation	Cancer Types	Relative Risk estimates (RRE) >2	RRE statistically significant	Dynamic/Static baseline	Number of workers exposed ('000)	% exposure more than suggested OEL	Strength of evidence for occupational cancer (HoR)	EU carcinogenicity category	Baseline health impact (Incident cancer 2010)	Baseline health impact (incidents 2010 - 2069)	Baseline health impact (deaths 2010 - 2069)	Baseline health impact (deaths 2010 - 2069)	Extent of decrease in health risks (avoided cancer)	Impact on SMEs	Baseline health costs (€m)	Health benefits from introducing OEL (€m)	Compliance costs (€m)	Benefit to cost ratio	Comments	
8	Respirable crystalline silica	COM	0.2 mg/m ³ 0.1 mg/m ³ 0.05 mg/m ³	<0.05 mg/m ³	Lung	No	Yes	Dynamic	720	14% 26% 41%	1	NA	7,600 470,000 6,900 440,000	80,000 99,000 110,000	Minimal Yes Yes	Minimal Yes Yes	Minimal Yes Yes	Minimal Yes Yes	€190,000,000 - €490,000,000	€21,000 - €56,000 €26,000 - €69,000 €38,000 - €74,000	€ 10,000 € 10,000 € 34,000	3.888 2.506 1.598		
7	Rubber process fume and dust	Typical	6 mg/m ³ (dust) 0.6 mg/m ³ (fume)	-	Lung, Larynx and Leukaemia	No	Only leuk aemia	Dynamic	57	14% 37%	1	NA	17 61	710 3,600	11 39	490 2,500	20 1,400	Minimal Minimal	Minimal Minimal	€720 - €860 €2,961 - €3,930	€24 - €46 €90 - €1,200	€55 - €280 €470 - €3,200	0.200 0.490	
13	Diesel engine exhaust emissions	Typical	0.1 mg/m ³	-	Lung and Bladder	No	Yes	Dynamic	3,600	1%	2A	NA	5,700 270,000	4,600 230,000	0	0	Minimal	Minimal	€99,000 - €260,000	€ 0	€25 - €250	0		
21	Mineral oils as used engine oil	Typical	NA	-	Non-melanoma skin cancer	No	No	Dynamic	1,000	NA	1	NA	900 130,000	7 1,200	1,200	Not assessed	Minimal	Minimal	€450 - €2,800	Not assessed	€46 - €920		Health impact assumes increasing numbers of people exposed over time, but no change in dermal exposure Recommend measure dermal exposure	
1	Hard wood dust	COM	3 mg/m ³ 1 mg/m ³	1 mg/m ³	Sinonasal and Nasopharyngeal	Yes	Yes	Dynamic	3,000	1% 2%	1	NA	450 14,000	200 3,000	6,300 3,000	500 3,000	Minimal Yes	Minimal Yes	€1,900 - €17,000 €11 - €51	€1 - €51 €61 - €297	€ 0 €3,800 - €8,600	0 0.029		
2	Vinyl chloride monomer	COM	7.67 mg/m ³ 5.11 mg/m ³ 2.56 mg/m ³	-	Liver	Yes	Yes	Static	19	1% 2% 4%	1	1	14 300	14 300	300 0	0 0	Minimal Minimal Minimal	Minimal Minimal Minimal	€190 - €470 € 0 €1 - €3	€ 0 € 0 €40 - €185	€ 0 € 0 € 0	0 0 0.018	Number of substances containing hexavalent chrome have been identified as SVHC	
5	Chrome VI	COM	0.1 mg/m ³ 0.05 mg/m ³ 0.025 mg/m ³	-	Lung and Sinonasal	Not lung	Yes	Dynamic	920	2% 4% 8%	1	2	490 24,000	380 17,000	17,000	600 1,400 1,800	Possible Possible Possible	Possible Possible Possible	€9,000 - €29,000 €340 - €991 €461 - €1,327	€150 - €456 €18,000 - €67,000 €30,000 - €115,000	€9,000 - €37,000 €16,000 - €67,000 €30,000 - €115,000	0.001 0.016 0.012		
11	1, 3 Butadiene	COM	11.4 mg/m ³ 2.28 mg/m ³ 1.14 mg/m ³	-	Lymphohaematopoietic	Yes	Yes	Dynamic	28	4% 28% 46%	1	1	2 160	1 100	100 0 0	0 0 0	Minimal Minimal Minimal	Minimal Minimal Minimal	€41 - €167 € 0 € 0	€ 0 € 0 € 0	€2 - €7 €17 - €63 €27 - €100	0 0 0		
3	Trichloroethylene	Typical	273 mg/m ³ 54.7 mg/m ³ 50 mg/m ³	-	Liver, Kidney and Lymphoma	No	Most	Dynamic	74	2% 28%	2A	2	93 4,800	59 3,300	3,300	10 580	Minimal Possible	Minimal Possible	€1,600 - €5,700 €120 - €430	€ 0 € 428	€ 61 € 64	0 0.64	Identified as SVHC Compliance cost assessment influenced by requirements to the Solvent Directive	
4	Beryllium and beryllium compounds	Typical	0.002 mg/m ³	-	Lung	No	No	Dynamic	65	10% 1%	1	2	7 430	6 390	390 50	50 Yes	Yes	€200 - €330	€11 - €30	€18,000 - €34,000	0.011			
6	Acrylamide	Typical	0.03 mg/m ³	-	Pancreatic	No	No	Dynamic	53	10% 2A	2	2	7 250	6 230	230	0	Minimal	Minimal	€160 - €330	€ 0	€ 0		Identified as SVHC	
9	4, 4' methylenedianiline (MDA)	Typical	0.8 mg/m ³ 0.08 mg/m ³	-	Bladder	None identified	None identified	Dynamic	between 390 and 3,900	Not known	2B	2	Not assessed	Not assessed	Not assessed	Minimal	Minimal	Not assessed	Not assessed	€1,400 - €29,000 €1,400 - €29,000	€ 0 € 0	€ 0 € 0	0 0	Identified as SVHC Recommended measure exposure
10	4,4'-Methylene bis 2-chloroaniline (MbOCA)	Typical	19 μmol/mol 5 μmol/mol	-	Bladder	Yes	No	Dynamic	2.5	5% 16%	2A	2	8 280	3 100	100 20	0 0	Minimal Minimal	Minimal Minimal	€45 - €350 €1 - €11	€1 - €7 €1,500 - €3,000	€560 - €1,100 € 0	0.005 0.003		
12	Ethylene oxide	Typical	1.8 mg/m ³	-	Leukaemia	Yes	No	Dynamic	16	0% 10%	1	2	0 0	0 0	0 0	0 0	Minimal Minimal	Minimal Minimal	€ 0 € 0	€ 0 € 0	€ 0 € 0	0 0	Identified as SVHC	
14	Refractory ceramic fibres	Typical	1 f/ml 0.1 f/ml	0.3 f/ml	Lung	Analogy	NA	Dynamic	10	10% 50%	2B	2	2 60	2 50	50 0	0 0	Possible Possible	Possible Possible	€33 - €83 €1 - €2	€1 - €2 €60 - €2,500	€ 0 € 0	0 0.001	Identified as SVHC SCoEL recommendation made 2010	
15	Hydrazine	Typical	0.13 mg/m ³ 0.013 mg/m ³	-	Lung and Colorectal	Yes	Yes	Dynamic	2,100	8% 75%	2B	2	149 2,500	43 710	710	0	Minimal	Minimal	€500 - €3,000	€ 0	€15 - €47 €62 - €200	0 0		
16	1, 2-Epoxypropane	Typical	12 mg/m ³ 4.8 mg/m ³	2.4 mg/m ³	Leukaemia	No	No	Static	<1.2	<1% 1%	2B	2	0 0	0 0	0 0	0 0	Minimal Minimal	Minimal Minimal	€2.5 - €11 € 0	€ 0 € 0	€ 0 € 0	0 0	SCoEL recommendation made 2010	
17	1, 2-Dichloroethane	Typical	20 mg/m ³ 4 mg/m ³	-	Uncertain	None identified	None identified	Dynamic	<3	<1% 13%	2B	2	Not assessed	Not assessed	Not assessed	Minimal	Minimal	Not assessed	Not assessed	€0 - €13 €0 - €43	€ 0 € 0	€ 0 € 0	0 0	
18	1, 2-Dibromoethane	Typical	0.8 mg/m ³	-	Uncertain	None identified	None identified	Dynamic	<8	8% 2%	2B	2	Not assessed	Not assessed	Not assessed	Minimal	Minimal	Not assessed	Not assessed	€ 0 € 0	€ 0 € 0	€ 0 € 0	0 0	
19	o-Toluidine	Typical	4.4 mg/m ³ 0.4 mg/m ³	-	Bladder	Yes	Yes	Static	5.5	0% 2%	1	2	22 490	7 150	150 0	0 0	Minimal Minimal	Minimal Minimal	€86 - €700 € 0	€ 0 € 0	€ 0 € 0	0 0		
20	Hexachlorobenzene	Typical	0.002 mg/m ³ 0.025 mg/m ³	-	Uncertain	None identified	None identified	Dynamic	Unknown	0% 0%	2B	2	Not assessed	Not assessed	Not assessed	Minimal	Minimal	Not assessed	Not assessed	€ 0 € 0	€ 0 € 0	€ 0 € 0	0 0	Substance banned Recommend measure exposure
22	Benzo[a]pyrene	Typical	0.002 mg/m ³	-	Lung and Bladder Non-melanoma skin cancer	No	Yes	Dynamic	7,900	0% NA	1	2	600 12,000	480 18,000	18,000 2	18,000 160	0 0	Minimal Minimal	Minimal Minimal	€6,300 - €19,000 €45 - €450	€ 0 € 0	€ 0 € 0	0 0	Pitch and anthracene oil identified as a SVHC
23	2-Nitropropane	Typical	19 mg/m ³	-	Uncertain	None identified	None identified	Dynamic	50	0% 2B	2	2	Not assessed	Not assessed	Not assessed	Minimal	Minimal	Not assessed	Not assessed	€ 0 € 0	€ 0 € 0	€ 0 € 0	0 0	
24	Bromoethylene	Typical	22 mg/m ³	-	Assumed to be Liver	Analogy	NA	Dynamic	<1	0% 2A	2	2	0 0	0 0	0 0	0 0	Minimal Minimal	Minimal Minimal	€ 0 € 0	€ 0 € 0	€ 0 € 0	0 0		
25	1-Chloro-2, 3-epoxypropane	Typical	1.9 mg/m ³	-	Lung and CNS	only CNS	No	Static	44	0% 2A	2	2	34 2,600	31 2,400	2,400	0	Minimal	Minimal	€1,400 - €2,800	€ 0	€ 0	0		