

The EU should adopt exposure limits for 50 of the most harmful substances from those listed below

No.	substance / group of substances	CAS no.	harmonized (or notified) classification / inclusion in annex I of CMD	REACH registered tonnage band [t/a] / process-generated substance
1	Acrylamide	79-06-1	C 1B, H350	100,000 – 1,000,000
2	Acrylnitrile	107-13-1	C 1B, H350	1,000,000 – 10,000,000
3	Aluminiumsilicate fibres (refractory ceramic fibres)	(142844-00-6)	C 1B, H350i	10,000 – 100,000
4	Antimony trioxide	1309-64-4	C 2, H351	10,000+
5	Arsenic trioxide and other arsenic compounds classified as C1A / C1B	1327-53-3 7778-39-4	C 1A, H350 notified: C 1A, H350	100 – 1,000 100 – 1,000
6	Asbestos (Chrysotile)			
7	Benzene	71-43-2	C 1A, H350	1,000,000 – 10,000,000
8	Benzo(a)pyrene	50-32-8	C 1B, H350 R 1B, H360FD	not registered / process-generated
9	Beryllium and beryllium compounds	7440-41-7	C 1B, H350i	10 – 100
10	4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	C 1B, H350	10 – 100
11	Bitumen	8052-42-4	no harmonized classification	1,000,000 – 10,000,000
12	1,3-Butadiene	106-99-0	C 1A, H350	1,000,000 – 10,000,000
13	Butanone oxime	96-29-7	C 2, H351 <u>proposed:</u> C 1B, H350	1,000– 10,000
14	Cadmium and cadmium compounds	7440-43-9	C 1B, H350 some: R 1B, H360FD	100 – 1,000
15	chlorinated Dibenzo-dioxins and -furans			not registered / process-generated
16	4-Chloroaniline	106-47-8	C 1B, H350	registered as

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				intermediate only
17	2-Chloro-1,3-butadiene (Chloroprene)	126-99-8	C 1B, H350	10,000 – 100,000
18	1-Chloro-2,3-epoxypropane (Epichlorohydrine)	106-89-8	C 1B, H350	100,000 – 1,000,000
19	α-Chlorotoluene	100-44-7	C 1B, H350	10 – 100
20	Chromium (VI) trioxide and other chromium (VI) compounds	1333-82-0	C 1A, H350 C 1B, H350 some: R 1B, H360FD	10,000 – 100,000
21	Cobalt compounds classified as C 1B	7646-79-9 10124-43-3 ...	C 1B, H350 some: R 1B, H360F	1,000 – 10,000
22	4,4'-Diaminodiphenylmethane (4,4'-methylene dianiline, MDA)	101-77-9	C 1B, H350	10,000 – 100,000
23	1,2-Dibromoethane	106-93-4	C 1B, H350	1,000 – 10,000
24	1,2-Dichloroethane	107-06-2	C 1B, H350	100,000 – 1,000,000
25	Dichloromethane	75-09-22	C 2, H351	100,000 – 1,000,000
26	2,2'-Dichloro-4,4'-methylene-dianiline (4,4'-Methylenebis(2-chloroaniline), MOCA)	101-14-4	C 1B, H350	1,000 – 10,000
27	1,2-Dichloropropane	78-87-5		1,000 – 10,000
28	Diesel engine exhaust emissions		annex I (recomm.)	process-generated
29	Diethyl sulfate	64-67-5	C 1B, H350	registered as intermediate only
30	Dimethyl sulfate	77-78-1	C 1B, H350	registered as intermediate only
31	1,2-Epoxybutane	106-88-7	C 2, H351	100+
32	Ethylene imine	151-56-4	C 1B, H350	100+
33	Ethylene oxide	75-21-8	C 1B, H350	1,000,000+
34	Formaldehyde	50-00-0	C 1B, H350	1,000,000+
35	Gallium arsenide	1303-00-0	C 1B, H350	10 – 100

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36	Glycidol (2,3-Epoxypropan-1-ol)	556-52-5	C 1B, H350 R 1B, H360F	10 – 100
37	Hydrazine	302-01-2	C 1B, H350	10,000 – 100,000
38	Isoprene (2-Methyl-1,3-butadiene)	78-79-5	C 1B, H350	100,000 – 1,000,000
39	Lead compounds, inorganic			
40	Methylhydrazine	60-34-4	C 1B, H350 proposed	10 – 100
41	Nickel monoxide and other nickel compounds classified as C 1A / C 1B	1313-99-1	C 1A, H350 some: R 1B, H360D	10,000 – 100,000
42	2-Nitropropane	79-46-9	C 1B, H350	1,000 – 10,000
43	N-Nitroso dimethylamine	62-75-9	C 1B, H350	not registered / process-generated
44	2-Nitrotoluene	88-72-2	C 1B, H350	10 – 100
45	4,4'-Oxydianiline and its salts	101-80-4	C 1B, H350	10 – 100
46	Phenolphthalein	77-09-8	C 1B, H350	10 – 100
47	Phenylhydrazine	100-63-0	C 1B, H350	registered as intermediate only
48	1,3-Propanesultone	1120-71-4	C 1B, H350	0 – 10
49	Propyleneimine	75-55-8	C 1B, H350	registered as intermediate only
50	Propylene oxide (1,2-Epoxypropane)	75-56-9	C 1B, H350	1,000,000+
51	Quartz (crystalline silica)	14808-60-7 14464-46-1 15468-32-3	annex I (recomm.)	process-generated
52	Quinoline	91-22-5	C 1B, H350	100 – 1,000
53	Silicone carbide whiskers	409-21-2	notified: C 1A, H350	
54	Styrene oxide ((Epoxyethyl)benzene)	96-09-3	C 1B, H350	100 – 1,000
55	Tetrachloroethylene	127-18-4	C 2, H351	100,000 –

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				1,000,000
56	Tetrafluoroethylene	116-14-3	notified: C 1B, H350 C2, H351	10,000 – 100,000
57	Thioacetamide	62-55-5	C 1B, H350	registered as intermediate only
58	o-Toluidine	95-53-4	C 1B, H350	10,000 – 100,000
59	Trichloroethylene	79-01-6	C 1B, H350	10,000 – 100,000
60	1,2,3-Trichloropropane	96-18-4	C 1B, H350 R 1B, H380F	1,000 – 10,000
61	α,α,α -Trichlorotoluene	98-07-7	C 1B, H350	registered as intermediate only
62	Vinyl bromide (bromoethylene)	593-60-2	C 1B, H350	registered as intermediate only
63	Vinyl chloride	75-01-4	C 1A, H350	1,000,000 – 10,000,000
64	Vinyl fluoride	75-02-5	notified: C 1B, H350	confidential
65	Wood dust		annex I	process-generated

In bold: carcinogens with an existing Binding Occupational Limit Value (BOEL) at EU level to be updated