

	Substance name	Cobalt massive; >99% over 1mm	Cobalt powder (non-respirable)	Cobalt powder (respirable) ^a	Cobalt dichloride	Cobalt dinitrate	Cobalt sulphate	Cobalt carbonate	Cobalt monoxide	Tricobalt tetraoxide	Cobalt dihydroxide	Cobalt trihydroxide	Cobalt hydroxide oxide	Cobalt sulphide	Cobalt lithium dioxide
	EC number	231-158-0	231-158-0	231-158-0	231-589-4	233-402-1	233-334-2	208-169-4	215-154-6	215-157-2	244-166-4	215-153-0	234-614-7	215-273-3	235-362-0
GHS Endpoints Part 2	Physical hazards	N/C	N/C ²	N/C ²	N/C	Ox. Sol. 2 (H272)	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.1	Acute toxicity - oral	Acute Tox. 4 (H302) LD ₅₀ 550mg/kg	Acute Tox. 4 (H302) LD ₅₀ 550mg/kg	Acute Tox. 4 (H302) LD ₅₀ 550mg/kg	Acute Tox. 4 (H302) LD ₅₀ 537mg/kg	Acute Tox. 4 (H302) LD ₅₀ 691mg/kg	Acute Tox. 4 (H302) LD ₅₀ 310mg/kg	Acute Tox. 4 (H302) LD ₅₀ 697mg/kg	Acute Tox. 3 (H301) LD ₅₀ 202mg/kg	N/C	Acute Tox. 4 (H302) LD ₅₀ 1060mg/kg	N/C	N/C	N/C	N/C
	Acute toxicity - inhalation	N/C	N/C	Acute Tox. 1 (H330) LC ₅₀ <0.05mg/L	Acute Tox. 4 (H332) ¹	Acute Tox. 4 (H332) ¹	N/C	N/C	Acute Tox. 2 (H330) LC ₅₀ 0.06mg/L	N/C	Acute Tox. 1 (H330) LC ₅₀ <0.05mg/L	N/C	N/C	N/C	N/C
	Acute toxicity - dermal	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.2	Skin corrosion/irritation	N/C	N/C	N/C	N/C	Skin Irrit. 3 (H316)	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.3	Serious eye damage/eye irritation	N/C	Eye Irrit. 2B (H320)	Eye Irrit. 2B (H320)	Eye Dam. 1 (H318)	Eye Dam. 1 (H318)	Eye Irrit. 2A (H319)	N/C	N/C	N/C	Eye Irrit. 2 (H319)	N/C	N/C	N/C	N/C
GHS Endpoints 3.4	Skin sensitization	Skin Sens. 1 (H317)	Skin Sens. 1 (H317)	Skin Sens. 1 (H317)	Skin Sens. 1A (H317)	Skin Sens. 1A (H317)	Skin Sens. 1A (H317)	Skin Sens. 1 (H317)	Skin Sens. 1B (H317)	N/C	Skin Sens. 1 (H317)	N/C	N/C	Skin Sens. 1A (H317)	N/C
	Respiratory sensitization	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	Resp. Sens. 1B (H334)	N/C
GHS Endpoints 3.5	Germ cell mutagenicity	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.6	Carcinogenicity	Carc. 1B (H350i)	Carc. 1B (H350i)	Carc. 1B (H350i)	Carc. 1B (H350i)	Carc. 1B (H350i)	Carc. 1B (H350i)	Carc. 1B (H350i)	Carc. 1B (H350i)	N/C	Carc. 1B (H350i)	N/C	N/C	N/C	N/C
GHS Endpoints 3.7	Reproductive toxicity	Repr. 2 (H361f)	Repr. 2 (H361f)	Repr. 2 (H361f)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	N/C	Repr. 1B (H360Fd)	N/C	N/C	N/C	N/C
GHS Endpoints 3.8	STOT - single exposure	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.9	STOT - repeated exposure	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.10	Aspiration hazard	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 4.1	Hazardous to the aquatic environment - acute	Aquatic Acute 3 (H402)	Aquatic Acute 1 (H400) M=10	Aquatic Acute 1 (H400) M=10	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=10	Aquatic Acute 3 (H402)	Aquatic Acute 1 (H400) M=10	N/C	Aquatic Acute 2 (H401)	Aquatic Acute 1 (H400) M=10	Aquatic Acute 3 (H402)
	Hazardous to the aquatic environment - long-term	Aquatic Chronic 3 (H412)	Aquatic Chronic 1 (H410) M=1	Aquatic Chronic 1 (H410) M=1	Aquatic Chronic 2 (H411)	Aquatic Chronic 2 (H411)	Aquatic Chronic 2 (H411)	Aquatic Chronic 2 (H411)	Aquatic Chronic 1 (H410) M=1	Aquatic Chronic 3 (H412)	Aquatic Chronic 2 (H411)	N/C	Aquatic Chronic 3 (H412)	Aquatic Chronic 2 (H411)	N/C
GHS Endpoints 4.2	Hazardous to the ozone layer	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

N.B. In some jurisdictions globally (e.g. the European Union) it is a legal requirement to incorporate certain "harmonised" classifications over and above these self-classifications. Individual companies should assess the requirements for their products, and include relevant classifications in SDS and labelling as appropriate

¹ Self-classified by route-to-route read-across from acute oral toxicity

^a Containing >0.01% respirable particles, as determined by SWERF model

² Individual powders may be flammable and require classification as Flam. Solid 1 or 2

	Substance name	Cobalt di(acetate)	Cobalt(2+) propionate	Cobalt, borate propionate complexes	Cobalt bis(2-ethyl-hexanoate)	Cobalt, borate 2-ethyl-hexanoate complexes	Neodecanoic acid, cobalt salt	Cobalt, borate neodecanoate complexes	Stearic acid, cobalt salt	Naphthenic acids, cobalt salts	Resin acids and Rosin acids, cobalt salts	Cobalt oxalate	Cobalt(II) 4-oxopent-2-en-2-olate
	EC number	200-755-8	216-333-1	295-033-2	205-250-6	295-032-7	248-373-0	270-601-2	237-016-4	263-064-0	273-321-9	212-409-3	237-855-6
GHS Endpoints Part 2	Physical hazards	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Self Heat. 2 (H252)	N/C	N/C
GHS Endpoints 3.1	Acute toxicity - oral	Acute Tox. 4 (H302) LD ₅₀ 708mg/kg	Acute Tox. 4 (H302) LD ₅₀ 355mg/kg	Acute Tox. 4 (H302) LD ₅₀ 310mg/kg	Acute Tox. 5 (H303) LD ₅₀ 3129mg/kg	Acute Tox. 5 (H303) LD ₅₀ 2210mg/kg	Acute Tox. 4 (H302) LD ₅₀ 1098mg/kg	Acute Tox. 4 (H302) LD ₅₀ 1098mg/kg	N/C	Acute Tox. 5 (H303) LD ₅₀ 3129mg/kg	N/C	N/C	Acute Tox. 4 (H302) LD ₅₀ 1750mg/kg
	Acute toxicity - inhalation	Acute Tox. 4 (H332) ¹	Acute Tox. 4 (H332) ¹	Acute Tox. 4 (H332) ¹	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	Acute toxicity - dermal	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.2	Skin corrosion/irritation	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.3	Serious eye damage/eye irritation	Eye Irrit. 2A (H319)	Eye Irrit. 2B (H320)	Eye Dam. 1 (H318)	Eye Irrit. 2A (H319)	Eye Irrit. 2A (H319)	N/C	Eye Irrit. 2A (H319)	N/C	N/C	N/C	N/C	Eye Dam. 1 (H318)
GHS Endpoints 3.4	Skin sensitization	Skin Sens. 1A (H317)	Skin Sens. 1A (H317)	Skin Sens. 1A (H317)	Skin Sens. 1A (H317)	Skin Sens. 1A (H317)	Skin Sens. 1 (H317)	Skin Sens. 1 (H317)	Skin Sens. 1 (H317)	Skin Sens. 1 (H317)	Skin Sens. 1A (H317)	Skin Sens. 1B (H317)	Skin Sens. 1A (H317)
	Respiratory sensitization	Resp. Sens. 1B (H334)	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Resp. Sens. 1B (H334)	N/C	N/C
GHS Endpoints 3.5	Germ cell mutagenicity	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.6	Carcinogenicity	Carc. 1B (H350i)	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.7	Reproductive toxicity	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)	N/C	N/C	N/C	N/C	N/C	Repr. 1B (H360Fd)	Repr. 1B (H360Fd)
GHS Endpoints 3.8	STOT - single exposure	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 3.9	STOT - repeated exposure	N/C	N/C	N/C	N/C	N/C	STOT RE 1 (H372)	STOT RE 1 (H372)	STOT RE 1 (H372)	STOT RE 1 (H372)	STOT RE 1 (H372)	N/C	N/C
GHS Endpoints 3.10	Aspiration hazard	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
GHS Endpoints 4.1	Hazardous to the aquatic environment - acute	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1	Aquatic Acute 2 (H401)	Aquatic Acute 1 (H400) M=1	Aquatic Acute 2 (H401)	Aquatic Acute 2 (H401)	Aquatic Acute 2 (H401)	Aquatic Acute 1 (H400) M=1	Aquatic Acute 1 (H400) M=1
	Hazardous to the aquatic environment - long-term	Aquatic Chronic 2 (H411)	Aquatic Chronic 2 (H411)	Aquatic Chronic 2 (H411)	Aquatic Chronic 3 (H412)	Aquatic Chronic 2 (H411)	Aquatic Chronic 3 (H412)	Aquatic Chronic 2 (H411)	Aquatic Chronic 3 (H412)	Aquatic Chronic 3 (H412)	Aquatic Chronic 3 (H412)	Aquatic Chronic 2 (H411)	Aquatic Chronic 2 (H411)
GHS Endpoints 4.2	Hazardous to the ozone layer	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

N.B. In some jurisdictions globally (e.g. the European Union) it is a legal requirement to incorporate certain "harmonised" classifications over and above these self-classifications. Individual companies should assess the requirements for their products, and include relevant classifications in SDS and labelling as appropriate

¹ Self-classified by route-to-route read-across from acute oral toxicity