

May 29th 2006	Cobalt	Cobalt Oxide	Cobalt Sulphide	Cobalt Chloride	Cobalt Sulphate	Cobalt Carbonate	Cobalt Nitrate	Cobalt Acetate
Endpoint	CAS: 7440-48-4	CAS: 1307-96-6	CAS: 1317-42-6	CAS: 7646-79-9 AND Cobalt Chloride 6H ₂ O CAS: 7791-13-1 (NO EINECS)	CAS: 10124-43-3 AND Cobalt Sulphate 7H ₂ O CAS: 10026-24-1 (NO EINECS)	CAS: 513-79-1	CAS: 10141-05-6 AND Cobalt Nitrate 6H ₂ O CAS: 10026-22-9 (NO EINECS)	CAS: 71-48-7 AND Cobalt Acetate 4H ₂ O CAS: 6147-53-1 (NO EINECS)
	EINECS: 231-158-0	EINECS: 215-154-6	EINECS: 215-273-3	EINECS: 231-589-4	EINECS: 233-334-2	EINECS: 208-169-4	EINECS: 233-402-1	EINECS: 200-755-8
Physical Properties	None	None	None	None	None	None	None	None
Acute Oral	None	Xn; R22	None	Xn; R22	Xn; R22	None	None	None
Acute Inhalation	None	None	None	None	None	None	None	None
Dermal Irritation	Xn, R42/43	R43	R43	R42/43	R42/43	R42/43	R42/43	R42/43
Eye irritation	None	None	None	None	None	None	None	None
Dermal Sensitization	Xn, R42/43	R43	R43	R42/43	R42/43	R42/43	R42/43	R42/43
Respiratory Sensitisation	Xn, R42/43	None	None	R42/43	R42/43	R42/43	R42/43	R42/43
Chronic Toxicity	None	None	None	None	None	None	None	None
Reproductive Toxicity	None	None	None	Cat 2; R60	Cat 2; R60	Cat 2; R60	Cat 2; R60	Cat 2; R60
Mutagenicity	None	None	None	Cat 3; R68	Cat 3; R68	Cat 3; R68	Cat 3; R68	Cat 3; R68
Carcinogenicity	None	None	None	Cat 2; R49	Cat 2; R49	Cat 2; R49	Cat 2; R49	Cat 2; R49
Aquatic Environment	R53	N; R50/53	N; R50/53	N; R50/53	N; R50/53	N; R50/53	N; R50/53	N; R50/53
Indications of Danger	Xn, R42/43	Xn, N	Xi, N	T, N	T, N	T, N	T, N	T, N
S-Phrases	2, 22, 24, 37, 61	2, 24, 37, 60, 61	2, 24, 37, 60, 61	53, 45, 60, 61	53, 45, 60, 61	53, 45, 60, 61	53, 45, 60, 61	53, 45, 60, 61

NOTE: Those classifications shaded grey do not enter force until the 1st ATP to the CLP

Specific Concentration Limits:

Cobalt Sulphide	
Concentration	Classification
C ≥ 2,5 %	Xi, N; R43-50/53
1 % ≤ C < 2,5 %	Xi, N; R43-51/53
0,25 % ≤ C < 1 %	N; R51/53
0,025 % ≤ C < 0,25 %	N; R52/53

Sulphate	
Concentration	Classification
C ≥ 25 %	T, N; R49-60-22-42/43-68-50/53
2,5 ≤ C < 25 %	T, N; R49-60-42/43-68-50/53
1 % ≤ C < 2,5 %	T, N; R49-60-42/43-68-51/53
0,5 % ≤ C < 1 %	T, N; R49-60-51/53
0,25 % ≤ C < 0,5 %	T, N; R49-51/53
0,025 % ≤ C < 0,25 %	T; R49-52/53
0,01 % ≤ C < 0,025 %	T; R49

and Acetates	
Concentration	Classification
C ≥ 2.5 %	T, N; R49-60-42/43-68-50/53
1 % ≤ C < 2,5 %	T, N; R49-60-42/43-68-51/53
0,5 % ≤ C < 1 %	T, N; R49-60-51/53
0,25 % ≤ C < 0,5 %	T, N; R49-51/53
0,025 % ≤ C < 0,25 %	T; R49-52/53
0,01 % ≤ C < 0,025 %	T; R49

R22 = Harmful if swallowed
R43 = May cause sensitization by skin contact
R42/43 = May cause sensitisation by inhalation and skin contact
R49 = May cause cancer by inhalation
R50/53 = Very toxic to aquatic organisms, may cause long term adverse effects in aquatic environment
R53 = May cause long term adverse effects in the aquatic environment
R60 = May impair fertility
R68 = Possible risk of irreversible effects

S2 = Keep out of the reach of children
S22 = Do not breathe dust
S24 = Avoid Contact with skin
S37 = Wear Suitable Gloves
S45 = In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 = Avoid exposure – obtain special instructions before use.
S60 = This material and its container must be disposed of as hazardous waste.
S61 = Avoid release to the environment. Refer to special instructions/safety data sheets.

Note E: Substances with specific effects on human health (see chapter 4 of Annex VI of Directive 67/548/EEC) that are classified as carcinogenic, mutagenic, and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'.

Xi = Irritating
Xn = Harmful
T = Toxic
N = Dangerous for the environment