Cobalt carbonate Exposure Scenarios Overview

Exposure scenario number and title	Volume (tonnes)	Manufacture	Identified uses			Resulting life cycle stage		Linked to Identified Use	Sector of use category (SU)	Chemical product category (PC)	Process category (PROC)	Article category (AC)	Environmental release category (ERC)
			Formulation	End use	Consumer use	Service life (for articles)	Waste stage						
9.1 Manufacture of cobalt carbonate		X	X					1	3, 8, 9	19	1, 3, 4, 5, 8b, 21, 22, 26, 27a		1
9.2 Manufacture of cobalt carbonate as an intermediate during catalyst production		X	X					2	3, 8, 9, 10	19	1, 2, 3, 8b, 9, 14		1, 3, 6a
9.3 Industrial use of cobalt carbonate as intermediate in the manufacture of other cobalt compounds during catalyst production			X	X				3	3, 8, 9, 10	19	1, 2, 3, 8b, 9, 14		1, 3, 4, 6a
9.4 Industrial use of cobalt carbonate in surface treatment processes (intermediate use)				X				4	3, 10	14, 15, 19, 38	1, 2, 4, 5, 7, 8b, 9, 13, 21, 24		5
9.5 Industrial use of cobalt carbonate in the manufacture of inorganic pigments & frits, glass and ceramic ware (intermediate use)				X				5	3, 8, 9, 13	19, 32, 33	1, 2, 3, 4, 5, 8b, 9, 14, 21, 22, 23, 26		1, 2, 3, 5, 6a
9.6 Industrial use of cobalt carbonate in fertilizers and/or feed grade materials			X					6	3, 1, 10	12	1, 2, 3, 8b, 9, 26		2
9.7 Industrial use of cobalt carbonate in the manufacture of chemicals and in other wet-chemical processes as intermediate			X	X				7	3, 8, 9, 10	19	1, 2, 3, 4, 5, 8b, 9 26		1, 6a
9.8 Professional use of fertilizers and/or feed grade materials containing cobalt carbonate			X	X				8	22, 1	12	8a, 9		8e

For the purpose of 2010 REACH registration a comprehensive exposure assessment was performed. Exposure Scenarios were developed as required by the regulation and by considering the relevant guidance. If exposure estimates were based on measured or analogous data, strict criteria were applied for their use in terms of quality and extent. All exposure estimates (including estimates derived with the aid of modeling tools) represent exposure levels which could occur in realistic worst case situations.
The final Exposure Scenarios are subject to a continuous process of improvement ensuring that new data on exposure and/or outcome of an updated hazard assessment would be reflected at short notice.

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