Cobalt sulphate 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 sulphate and use of cobalt sulphate in the production of cobalt carbonate		X	X					1	3, 8, 9	19	1, 3, 4, 5, 8b, 21, 22, 26, 27a		1
9. 2 Industrial use of cobalt sulphate in surface treatment processes (intermediate use)				X				2	3, 10	14, 15, 19, 38	1, 2, 4, 5, 7, 8b, 9, 13, 21, 24		5
9.3 Formulation and industrial use of cobalt sulphate as water treatment chemical, oxygen scavenger, corrosion inhibitor			X	X				3	3, 10	20, 21, 35, 37	2, 4, 5, 8b, 9, 15		2
9.4 Manufacture and industrial use of batteries using cobalt sulphate (intermediate use)			X					4	3, 16	19	3, 4, 5, 6, 8b, 9, 13, 14, 21, 26		5
9.5 Industrial use of cobalt sulphate 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 Manufacture, formulation and industrial use of coatings and inks using cobalt sulphate as drier, pigment and /or pre-formulation of paints			X	X				6	3, 10	9a, 18	1, 2, 3, 4, 5, 7, 8b, 9, 10, 13, 26		2
9.7 Industrial use of cobalt sulphate in the manufacture of textile dyes (intermediate use)				X				7	3, 10	19, 34	1, 2, 3, 8b		1, 6a
9.8 Industrial use of cobalt sulphate in the manufacture of chemicals and in other wet-chemical processes as intermediate			X	X				8	3, 8, 9, 10	19	1, 2, 3, 4, 5, 8b, 9 26		1, 6a

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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