

Identified uses in the electroplating industry (ZVO)

Number	Code	Short ES title	Short description of process or activity	use descriptors, as link to ECETOC-TRA (tier 1)							Life Cycle Stage(s)					Exposure Modifier					RMM		SPERC (later)
				Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Article Sub-category	Environmental Release Category (ERC)	Manufacture	Formulation	end use			duration and frequency (exposure time)	Outdoor	Indoor		respiratory protection	Eye protection (goggles)	protection of hands (gloves)	
													Industrial	Professional	Consumer		Service Life	with Local Exhaust Ventilation (LEV)	without LEV				
1	Product Delivered to a Formulator	Use in industrial manufacture of preparations, including laboratory assistance (PC 14, 15, 20, 21)	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); Industrial setting	SU 3 SU 10	PROC 5	not applicable	not applicable	not applicable	not applicable	ERC 2 ERC 4	X				4h-8h/shift	no	yes	no	efficiency 90 %	yes	yes		
			Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities; Industrial setting		PROC 8b										4h-8h/shift	no	yes	no	efficiency 90 %	yes	yes		
			Transfer of substance or preparation into small containers (dedicated filling line, including weighing); Industrial setting		PROC 9										4h-8h/shift	no	yes	no	efficiency 90 %	yes	yes		
			Use as laboratory reagent; Industrial setting		PROC 15										1h-4h/shift	no	yes	no	not	yes	no		
2	Any Substance for Manual Electroplating	Use for industrial manual electroplating surface treatment (PC 14, 15, 20, 21, 38)	Spraying in industrial settings and applications	SU 3	PROC 7	not applicable	not applicable	not applicable	not applicable	ERC 4					4h-8h/shift	no	yes	no	not	yes	yes		
			Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities; Industrial setting		PROC 8b										1h-4h/shift	no	yes	no	efficiency 90 %	yes	yes		
			Treatment of articles by dipping and pouring; Industrial setting		PROC 13										4h-8h/shift	no	yes	no	not	yes	yes		
			Use as laboratory reagent; Industrial setting		PROC 15										1h-4h/shift	no	yes	no	not	yes	no		
3	Any Substance for Automatic Electroplating	Use for industrial automatic electroplating surface treatment (PC 14, 15, 20, 21, 38)	Spraying in industrial settings and applications	SU 3	PROC 7	not applicable	not applicable	not applicable	not applicable	ERC 4					1h-4h/shift	no	yes	no	not	yes	yes		
			Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities; Industrial setting		PROC 8b										1h-4h/shift	no	yes	no	efficiency 90 %	yes	yes		
			Treatment of articles by dipping and pouring; Industrial setting		PROC 13										1h-4h/shift	no	yes	no	not	yes	yes		
			Use as laboratory reagent; Industrial setting		PROC 15										1h-4h/shift	no	yes	no	not	yes	no		