Table 2.4. Uses by professional workers

	Uses by professional workers
PW-1	**Reforming and reshaping of palladium metal (not becoming part of article)** Further description of the use: Contributing activity/technique for the environment : **- ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)** **- ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)** Contributing activity/technique for the workers : **- PROC 4: Chemical production where opportunity for exposure arises** **- PROC 5: Mixing or blending in batch processes** **- PROC 6: Calendering operations** **- PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities** **- PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]** **- PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)** **- PROC 10: Roller application or brushing** **- PROC 13: Treatment of articles by dipping and pouring** **- PROC 19: Hand-mixing with intimate contact and only PPE available.** **- PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting** **- PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles** **- PROC 25: Other hot work operations with metals** **- PROC 26: Handling of solid inorganic substances at ambient temperature** **Product Category used:** PC 1: Adhesives, sealants ; PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 14: Metal surface treatment products ; PC 21: Laboratory chemicals ; PC 33: Semiconductors ; PC 38: Welding and soldering products, flux products ; PC 0: Other: **Sector of end use:** SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 16: Manufacture of computer, electronic and optical products, electrical equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment ; SU 24: Scientific research and development ; SU 0: Other: **Technical function of the substance:** no technical function Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no
PW-2	**Reforming and reshaping of palladium metal (becoming part of an article)** Further description of the use: Contributing activity/technique for the environment : **- ERC8c: Widespread use leading to inclusion into/onto article (indoor)** Contributing activity/technique for the workers : **- PROC 4: Chemical production where opportunity for exposure arises** **- PROC 5: Mixing or blending in batch processes** **- PROC 6: Calendering operations** **- PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities** **- PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]** **- PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)** **- PROC 10: Roller application or brushing** **- PROC 13: Treatment of articles by dipping and pouring** **- PROC 19: Hand-mixing with intimate contact and only PPE available.**

	- PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting **- PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles** **- PROC 25: Other hot work operations with metals** **- PROC 26: Handling of solid inorganic substances at ambient temperature** **Product Category used:** PC 1: Adhesives, sealants ; PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 14: Metal surface treatment products ; PC 21: Laboratory chemicals ; PC 33: Semiconductors ; PC 38: Welding and soldering products, flux products ; PC 0: Other: **Sector of end use:** SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 16: Manufacture of computer, electronic and optical products, electrical equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment ; SU 24: Scientific research and development ; SU 0: Other: **Technical function of the substance:** no technical function Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Service life of articles with high contact potential in professional settings ; Service life of articles with low contact potential (palladium included as internal part of the article) in professional settings ; Service life of articles with high contact potential by consumers ; Service life of articles with low contact potential (palladium included as internal part of the article) by consumers
PW-3	**Production of palladium-containing alloys** Further description of the use: Contributing activity/technique for the environment : **- ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)** **- ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)** Contributing activity/technique for the workers : **- PROC 5: Mixing or blending in batch processes** **- PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting** **- PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles** **- PROC 26: Handling of solid inorganic substances at ambient temperature** **Product Category used:** PC 1: Adhesives, sealants ; PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 14: Metal surface treatment products ; PC 21: Laboratory chemicals ; PC 33: Semiconductors ; PC 38: Welding and soldering products, flux products ; PC 0: Other: **Sector of end use:** SU 15: Manufacture of fabricated metal products, except machinery and equipment **Technical function of the substance:** alloying element Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Service life of articles with high contact potential in professional settings ; Service life of articles with low contact potential (palladium included as internal part of the article) in professional settings ; Service life of articles with high contact potential by consumers ; Service life of articles with low contact potential (palladium included as internal part of the article) by consumers ; Service life of dental alloys by consumers ; Service life of dental alloys in professional settings
PW-4	**Use as dental alloy** Further description of the use: Contributing activity/technique for the environment : **- ERC8c: Widespread use leading to inclusion into/onto article (indoor)** Contributing activity/technique for the workers :

	- PROC 21: Low energy manipulation of substances bound in materials and/or articles **- PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting** **- PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature** **- PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles** **Product Category used:** PC 1: Adhesives, sealants ; PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 14: Metal surface treatment products ; PC 21: Laboratory chemicals ; PC 33: Semiconductors ; PC 38: Welding and soldering products, flux products ; PC 0: Other: **Sector of end use:** SU 20: Health services **Technical function of the substance:** alloying element Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Service life of dental alloys by consumers ; Service life of dental alloys in professional settings