

Table 2.3. Uses at industrial sites

	Uses at industrial sites
IW-1	<p><b>Use as an intermediate</b>  <u>Further description of the use:</u>  Contributing activity/technique for the environment :  - <b>ERC6a: Use of intermediate</b>  Contributing activity/technique for the workers :  - <b>PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>  - <b>PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions</b>  - <b>PROC 4: Chemical production where opportunity for exposure arises</b>  - <b>PROC 5: Mixing or blending in batch processes</b>  - <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b>  - <b>PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b>  - <b>PROC 14: Tableting, compression, extrusion, pelletisation, granulation</b>  - <b>PROC 15: Use as laboratory reagent</b>  - <b>PROC 21: Low energy manipulation of substances bound in materials and/or articles</b>  - <b>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</b>  - <b>PROC 26: Handling of solid inorganic substances at ambient temperature</b>  <b>Product Category used:</b> PC 19: Intermediate  <b>Sector of end use:</b> SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals ; SU 14: Manufacture of basic metals, including alloys  <b>Technical function of the substance:</b> intermediate (precursor)  Tonnage of substance for that use: tonnes/year  Substance supplied to that use: as such ; in a mixture  Subsequent service life relevant for that use: no</p>
IW-3	<p><b>Use of process catalysts</b>  <u>Further description of the use:</u>  Contributing activity/technique for the environment :  - <b>ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b>  Contributing activity/technique for the workers :  - <b>PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>  - <b>PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b>  - <b>PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions</b>  - <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b>  - <b>PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b>  <b>Product Category used:</b> PC 3: Air care products ; PC 0: Other:  <b>Sector of end use:</b> SU 9: Manufacture of fine chemicals ; SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) ; SU 0: Other:  <b>Technical function of the substance:</b> catalyst  Tonnage of substance for that use: tonnes/year  Substance supplied to that use: as such ; in a mixture  Subsequent service life relevant for that use: no</p>
IW-3	<p><b>Use of process catalysts</b>  <u>Further description of the use:</u></p>

	<p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> <li>- <b>ERC6b: Use of reactive processing aid at industrial site (no inclusion into or onto article)</b></li> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- <b>PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b></li> <li>- <b>PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b></li> </ul> <p><b>Product Category used:</b> PC 3: Air care products ; PC 0: Other:  <b>Sector of end use:</b> SU 9: Manufacture of fine chemicals ; SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) ; SU 0: Other:  <b>Technical function of the substance:</b> catalyst  Tonnage of substance for that use: tonnes/year  Substance supplied to that use: as such ; in a mixture  Subsequent service life relevant for that use: no</p>
IW-4	<p><b>Production of environmental or automotive catalysts</b>  <u>Further description of the use:</u>  Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> <li>- <b>ERC5: Use at industrial site leading to inclusion into/onto article</b></li> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- <b>PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 4: Chemical production where opportunity for exposure arises</b></li> <li>- <b>PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</b></li> <li>- <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b></li> <li>- <b>PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b></li> <li>- <b>PROC 13: Treatment of articles by dipping and pouring</b></li> <li>- <b>PROC 14: Tableting, compression, extrusion, pelletisation, granulation</b></li> <li>- <b>PROC 15: Use as laboratory reagent</b></li> <li>- <b>PROC 21: Low energy manipulation of substances bound in materials and/or articles</b></li> <li>- <b>PROC 26: Handling of solid inorganic substances at ambient temperature</b></li> <li>- <b>PROC 27a: Production of metal powders (hot processes)</b></li> </ul> <p><b>Product Category used:</b> PC 3: Air care products ; PC 0: Other:  <b>Sector of end use:</b> SU 9: Manufacture of fine chemicals ; SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) ; SU 0: Other:  <b>Technical function of the substance:</b> catalyst  Tonnage of substance for that use: tonnes/year  Substance supplied to that use: as such ; in a mixture  Subsequent service life relevant for that use: yes  Link to the subsequent service life: Service life of environmental or automotive catalysts in professional settings ; Service life of environmental or automotive catalysts by consumers</p>
IW-5	<p><b>Use in metal surface treatment</b>  <u>Further description of the use:</u>  Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> <li>- <b>ERC5: Use at industrial site leading to inclusion into/onto article</b></li> </ul>

	<p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- <b>PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b></li> <li>- <b>PROC 13: Treatment of articles by dipping and pouring</b></li> <li>- <b>PROC 21: Low energy manipulation of substances bound in materials and/or articles</b></li> <li>- <b>PROC 26: Handling of solid inorganic substances at ambient temperature</b></li> </ul> <p><b>Product Category used:</b> PC 14: Metal surface treatment products</p> <p><b>Sector of end use:</b> SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 24: Scientific research and development</p> <p><b>Technical function of the substance:</b> plating agents and metal surface treating agents</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Service life of surface treated articles in professional settings ; Service life of surface treated articles by consumers</p>
IW-6	<p><b>Reforming and reshaping of palladium metal</b></p> <p><u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> <li>- <b>ERC5: Use at industrial site leading to inclusion into/onto article</b></li> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- <b>PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 4: Chemical production where opportunity for exposure arises</b></li> <li>- <b>PROC 5: Mixing or blending in batch processes</b></li> <li>- <b>PROC 6: Calendering operations</b></li> <li>- <b>PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</b></li> <li>- <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b></li> <li>- <b>PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b></li> <li>- <b>PROC 10: Roller application or brushing</b></li> <li>- <b>PROC 13: Treatment of articles by dipping and pouring</b></li> <li>- <b>PROC 14: Tableting, compression, extrusion, pelletisation, granulation</b></li> <li>- <b>PROC 15: Use as laboratory reagent</b></li> <li>- <b>PROC 21: Low energy manipulation of substances bound in materials and/or articles</b></li> <li>- <b>PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting</b></li> <li>- <b>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</b></li> <li>- <b>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</b></li> <li>- <b>PROC 25: Other hot work operations with metals</b></li> <li>- <b>PROC 26: Handling of solid inorganic substances at ambient temperature</b></li> <li>- <b>PROC 27a: Production of metal powders (hot processes)</b></li> <li>- <b>PROC 27b: Production of metal powders (wet processes)</b></li> </ul> <p><b>Product Category used:</b> PC 1: Adhesives, sealants ; PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removers ; PC 14: Metal surface treatment products ; PC 21: Laboratory chemicals ; PC 33: Semiconductors ; PC 38: Welding and soldering products, flux products ; PC 0: Other:</p> <p><b>Sector of end use:</b> 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 20: Health services ; SU 24:</p>

	<p>Scientific research and development ; SU 0: Other:</p> <p><b>Technical function of the substance:</b> no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>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 articles with high contact potential in industrial settings ; Service life of articles with low contact potential (palladium included as internal part of the article) in industrial settings</p>
IW-7	<p><b>Production of palladium-containing alloys</b></p> <p><u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> <li>- <b>ERC5: Use at industrial site leading to inclusion into/onto article</b></li> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- <b>PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions</b></li> <li>- <b>PROC 4: Chemical production where opportunity for exposure arises</b></li> <li>- <b>PROC 5: Mixing or blending in batch processes</b></li> <li>- <b>PROC 6: Calendering operations</b></li> <li>- <b>PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</b></li> <li>- <b>PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH]</b></li> <li>- <b>PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b></li> <li>- <b>PROC 13: Treatment of articles by dipping and pouring</b></li> <li>- <b>PROC 14: Tableting, compression, extrusion, pelletisation, granulation</b></li> <li>- <b>PROC 21: Low energy manipulation of substances bound in materials and/or articles</b></li> <li>- <b>PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting</b></li> <li>- <b>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</b></li> <li>- <b>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</b></li> <li>- <b>PROC 25: Other hot work operations with metals</b></li> <li>- <b>PROC 26: Handling of solid inorganic substances at ambient temperature</b></li> <li>- <b>PROC 27a: Production of metal powders (hot processes)</b></li> </ul> <p><b>Product Category used:</b> 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:</p> <p><b>Sector of end use:</b> SU 2a: Mining (without offshore industries) ; 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 20: Health services ; SU 0: Other:</p> <p><b>Technical function of the substance:</b> alloying element</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>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</p>

	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 ; Service life of articles with high contact potential in industrial settings ; Service life of articles with low contact potential (palladium included as internal part of the article) in industrial settings
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