

2.1. Manufacture

Table 2.2. Manufacture

	Manufacture
M-1	<p>Production of Tetrasodium Pyrophosphate Further description of manufacturing process:</p> <p>Contributing activity/technique for the environment : <ul style="list-style-type: none"> - ERC1: Manufacture of the substance </p> <p>Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions - PROC 4: Chemical production where opportunity for exposure arises - 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 26: Handling of solid inorganic substances at ambient temperature </p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>

2.2. Identified uses

Table 2.3. Formulation

	Formulation
F-1	<p>Formulation of mixtures containing TSPP Further description of the use:</p> <p>Contributing activity/technique for the environment : <ul style="list-style-type: none"> - ERC2: Formulation into mixture </p> <p>Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions - PROC 4: Chemical production where opportunity for exposure arises - PROC 5: Mixing or blending in batch processes - 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 14: Tableting, compression, extrusion, pelletisation, granulation - PROC 15: Use as laboratory reagent - PROC 26: Handling of solid inorganic substances at ambient temperature - PROC28: Manual maintenance (cleaning and repair) of machinery </p> <p>Product Category formulated: PC 1: Adhesives, sealants ; PC 3: Air care products ; PC 8:</p>

	<p>Biocidal products (e.g. disinfectants, pest control) ; PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 9c: Finger paints ; PC 12: Fertilisers ; PC 14: Metal surface treatment products ; PC 16: Heat transfer fluids ; PC 17: Hydraulic fluids ; PC 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals ; PC 23: Leather treatment products ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids ; PC 27: Plant protection products ; PC 32: Polymer preparations and compounds ; PC 34: Textile dyes, and impregnating products ; PC 35: Washing and cleaning products ; PC 36: Water softeners ; PC 37: Water treatment chemicals ; PC 39: Cosmetics, personal care products</p> <p>Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such Related assessment: use assessed in an own CSR</p>
F-2	<p>Formulation of materials containing TSPP <u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC3: Formulation into solid matrix Contributing activity/technique for the workers : - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions - PROC 4: Chemical production where opportunity for exposure arises - PROC 5: Mixing or blending in batch processes - 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 13: Treatment of articles by dipping and pouring - PROC 14: Tableting, compression, extrusion, pelletisation, granulation - PROC 15: Use as laboratory reagent - PROC 26: Handling of solid inorganic substances at ambient temperature - PROC28: Manual maintenance (cleaning and repair) of machinery Product Category formulated: PC 1: Adhesives, sealants ; PC 3: Air care products ; PC 8: Biocidal products (e.g. disinfectants, pest control) ; PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 9c: Finger paints ; PC 12: Fertilisers ; PC 14: Metal surface treatment products ; PC 16: Heat transfer fluids ; PC 17: Hydraulic fluids ; PC 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals ; PC 23: Leather treatment products ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids ; PC 32: Polymer preparations and compounds ; PC 34: Textile dyes, and impregnating products ; PC 35: Washing and cleaning products ; PC 36: Water softeners ; PC 37: Water treatment chemicals ; PC 39: Cosmetics, personal care products</p> <p>Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such Related assessment: use assessed in an own CSR</p>

Table 2.4. Uses at industrial sites

	Uses at industrial sites
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<p>IW-1</p>	<p>Industrial use of washing and cleaning products <u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) Contributing activity/technique for the workers : - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 4: Chemical production where opportunity for exposure arises - PROC 5: Mixing or blending in batch processes - PROC 7: Industrial spraying - 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. - PROC28: Manual maintenance (cleaning and repair) of machinery Product Category used: PC 35: Washing and cleaning products Sector of end use: SU 1: Agriculture, forestry and fishing ; SU 2a: Mining (without offshore industries) ; SU 2b: Offshore industries ; SU 4: Manufacture of food products ; SU 5: Manufacture of textiles, leather, fur ; SU 6a: Manufacture of wood and wood products ; SU 6b: Manufacture of pulp, paper and paper products ; SU 7: Printing and reproduction of recorded media ; SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals ; SU 11: Manufacture of rubber products ; SU 12: Manufacture of plastics products, including compounding and conversion ; SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement ; 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 18: Manufacture of furniture ; SU 19: Building and construction work ; SU 20: Health services ; SU 23: Electricity, steam, gas water supply and sewage treatment ; SU 24: Scientific research and development ; SU 0: Other: Washing and cleaning services Technical function of the substance: antiredeposition agent ; cleaning agent ; dispersing agent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
<p>IW-2</p>	<p>Industrial use as a binding agent in ceramic materials and in ceramics, cement and plasters <u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC5: Use at industrial site leading to inclusion into/onto article Contributing activity/technique for the workers : - PROC 5: Mixing or blending in batch processes - PROC 7: Industrial spraying - 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)</p>

	<ul style="list-style-type: none"> - PROC 10: Roller application or brushing - PROC 13: Treatment of articles by dipping and pouring - PROC 14: Tableting, compression, extrusion, pelletisation, granulation - 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 23: Open processing and transfer operations with minerals/metals at elevated temperature - PROC 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 9b: Fillers, putties, plasters, modelling clay Sector of end use: SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement ; SU 19: Building and construction work Technical function of the substance: binder ; processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: yes Link to the subsequent service life: Worker service life of stone, plaster, cement, glass and ceramic articles ; Professional service life of stone, plaster, cement, glass and ceramic articles ; Consumer service life of stone, plaster, cement, glass and ceramic articles Related assessment: use assessed in an own CSR</p>
IW-3	<p>Industrial use in metal surface treatment (no inclusion into/onto article) <u>Further description of the use:</u> Contributing activity/technique for the environment : <ul style="list-style-type: none"> - ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 4: Chemical production where opportunity for exposure arises - PROC 7: Industrial spraying - 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 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 26: Handling of solid inorganic substances at ambient temperature Product Category used: PC 14: Metal surface treatment products Sector of end use: SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Technical function of the substance: antiscaling agent ; corrosion inhibitor ; finishing agents use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
IW-4	<p>Industrial use in metal surface treatment (inclusion into/onto article) <u>Further description of the use:</u> Contributing activity/technique for the environment : <ul style="list-style-type: none"> - ERC5: Use at industrial site leading to inclusion into/onto article Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 4: Chemical production where opportunity for exposure arises - PROC 7: Industrial spraying - PROC 8a: Transfer of substance or mixture (charging and discharging) at </p>

	<p>non-dedicated facilities</p> <ul style="list-style-type: none"> - PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH] - 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 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 14: Metal surface treatment products Sector of end use: SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Technical function of the substance: antiscaling agent ; corrosion inhibitor ; finishing agents use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
IW-5	<p>Industrial use in metal-working fluids, lubricants, greases, heat transfer and hydraulic fluids</p> <p><u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC7: Use of functional fluid at industrial site</p> <p>Contributing activity/technique for the workers : - 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 10: Roller application or brushing - PROC 13: Treatment of articles by dipping and pouring - PROC 17: Lubrication at high energy conditions in metal working operations - 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 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 - PROC 25: Other hot work operations with metals</p> <p>Product Category used: PC 16: Heat transfer fluids ; PC 17: Hydraulic fluids ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids Sector of end use: SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Technical function of the substance: lubricating agent ; processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
IW-6	<p>Industrial use in dyes and auxiliary chemicals for textiles and leather</p> <p><u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC5: Use at industrial site leading to inclusion into/onto article</p> <p>Contributing activity/technique for the workers : - PROC 5: Mixing or blending in batch processes - PROC 6: Calendaring operations</p>

	<ul style="list-style-type: none">- PROC 7: Industrial spraying- 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. <p>Product Category used: PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 23: Leather treatment products ; PC 34: Textile dyes, and impregnating products</p> <p>Sector of end use: SU 5: Manufacture of textiles, leather, fur</p> <p>Technical function of the substance: processing aid</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Worker service life of textiles and leather articles ; Professional service life of textiles and leather articles ; Consumer service life of textiles and leather articles</p> <p>Related assessment: use assessed in an own CSR</p>
IW-7	<p>Industrial use as an additive/pigment/auxiliary in plastics, resins, paints, coatings, mastics and inks</p> <p><u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none">- ERC5: Use at industrial site leading to inclusion into/onto article <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- PROC 5: Mixing or blending in batch processes- PROC 7: Industrial spraying- 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 14: Tableting, compression, extrusion, pelletisation, granulation- PROC 19: Hand-mixing with intimate contact and only PPE available.- PROC 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 1: Adhesives, sealants ; PC 9a: Coatings and paints, thinners, paint removes ; PC 9c: Finger paints ; PC 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 32: Polymer preparations and compounds</p> <p>Sector of end use: SU 6a: Manufacture of wood and wood products ; SU 6b: Manufacture of pulp, paper and paper products ; SU 12: Manufacture of plastics products, including compounding and conversion</p> <p>Technical function of the substance: processing aid</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Worker service life of wood, plastic and paper articles ; Professional service life of textiles and leather articles ; Consumer service life of wood, paper and plastic articles</p> <p>Related assessment: use assessed in an own CSR</p>

<p>IW-8</p>	<p>Industrial use of TSPP as an intermediate; including the use of a raw material for the synthesis of a new fertilizer substance. <u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC6a: Use of intermediate Contributing activity/technique for the workers : - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions - PROC 4: Chemical production where opportunity for exposure arises - PROC 5: Mixing or blending in batch processes - 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 26: Handling of solid inorganic substances at ambient temperature Product Category used: PC 12: Fertilisers ; PC 27: Plant protection products Sector of end use: SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals Technical function of the substance: intermediate (precursor) use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
<p>IW-9</p>	<p>Industrial use in water and wastewater treatment <u>Further description of the use:</u> Use for the treatment of drinking water, waste water and in closed process water circuits (for example domestic or institutional boiler/heater circuits, cooling waters, industrial process waters) Contributing activity/technique for the environment : - ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) Contributing activity/technique for the workers : - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH] - PROC 19: Hand-mixing with intimate contact and only PPE available. - PROC 26: Handling of solid inorganic substances at ambient temperature Product Category used: PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 36: Water softeners ; PC 37: Water treatment chemicals Sector of end use: SU 23: Electricity, steam, gas water supply and sewage treatment Technical function of the substance: antiscaling agent ; corrosion inhibitor use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture</p>

	Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR
IW-10	<p>Industrial use of oil well and other drilling fluid applications. liquefying earths, muds, clays <u>Further description of the use:</u> Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - PROC 5: Mixing or blending in batch processes - 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 13: Treatment of articles by dipping and pouring - PROC 18: General greasing / lubrication at high kinetic energy conditions - PROC 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 17: Hydraulic fluids ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents Sector of end use: SU 2a: Mining (without offshore industries) ; SU 2b: Offshore industries Technical function of the substance: processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant 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 Related assessment: use assessed in an own CSR</p>

Table 2.5. Uses by professional workers

Uses by professional workers	
PW-1	<p>Professional use of washing and cleaning products <u>Further description of the use:</u> Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - 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) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC 4: Chemical production where opportunity for exposure arises - PROC 5: Mixing or blending in batch processes - 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 11: Non industrial spraying - PROC 13: Treatment of articles by dipping and pouring - PROC 19: Hand-mixing with intimate contact and only PPE available. <p>Product Category used: PC 35: Washing and cleaning products Sector of end use: SU 1: Agriculture, forestry and fishing ; SU 2a: Mining (without offshore industries) ; SU 2b: Offshore industries ; SU 4: Manufacture of food products ; SU 5: Manufacture of textiles, leather, fur ; SU 6a: Manufacture of wood and wood products ; SU 6b: Manufacture of</p>

	<p>pulp, paper and paper products ; SU 7: Printing and reproduction of recorded media ; SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals ; SU 11: Manufacture of rubber products ; SU 12: Manufacture of plastics products, including compounding and conversion ; SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement ; 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 18: Manufacture of furniture ; SU 19: Building and construction work ; SU 20: Health services ; SU 23: Electricity, steam, gas water supply and sewage treatment ; SU 24: Scientific research and development ; SU 0: Other: Washing and cleaning services</p> <p>Technical function of the substance: antiredeposition agent ; cleaning agent ; dispersing agent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Subsequent service life relevant for that use: no</p> <p>Related assessment: use assessed in an own CSR</p>
PW-2	<p>Professional use as a binding agent in ceramic materials and in ceramics, cement and plasters <u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - ERC8c: Widespread use leading to inclusion into/onto article (indoor) ; ERC8f: Widespread use leading to inclusion into/onto article (outdoor) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - PROC 5: Mixing or blending in batch processes - PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - PROC 10: Roller application or brushing - PROC 11: Non industrial spraying - PROC 13: Treatment of articles by dipping and pouring - PROC 14: Tableting, compression, extrusion, pelletisation, granulation - 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 23: Open processing and transfer operations with minerals/metals at elevated temperature - PROC 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 9b: Fillers, putties, plasters, modelling clay</p> <p>Sector of end use: SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement ; SU 19: Building and construction work</p> <p>Technical function of the substance: binder ; processing aid</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Professional service life of stone, plaster, cement, glass and ceramic articles ; Consumer service life of stone, plaster, cement, glass and ceramic articles</p> <p>Related assessment: use assessed in an own CSR</p>
PW-3	<p>Professional use of TSPP in metal surface treatment <u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

	<ul style="list-style-type: none"> - PROC 10: Roller application or brushing - PROC 11: Non industrial spraying - PROC 13: Treatment of articles by dipping and pouring - PROC 19: Hand-mixing with intimate contact and only PPE available. - PROC 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 14: Metal surface treatment products Sector of end use: SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment Technical function of the substance: antiscaling agent ; corrosion inhibitor ; finishing agents use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: <=3000 tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
PW-4	<p>Professional use in metal-working fluids, lubricants, greases, heat transfer and hydraulic fluids</p> <p><u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC9a: Widespread use of functional fluid (indoor) ; ERC9b: Widespread use of functional fluid (outdoor)</p> <p>Contributing activity/technique for the workers : - PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH] - PROC 10: Roller application or brushing - PROC 13: Treatment of articles by dipping and pouring - PROC 17: Lubrication at high energy conditions in metal working operations - PROC 19: Hand-mixing with intimate contact and only PPE available. - 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 - PROC 25: Other hot work operations with metals</p> <p>Product Category used: PC 16: Heat transfer fluids ; PC 17: Hydraulic fluids ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids Sector of end use: SU 14: Manufacture of basic metals, including alloys ; SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Technical function of the substance: lubricating agent ; processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
PW-5	<p>Professional use in dyes and auxiliary chemicals for textiles and leather</p> <p><u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC8c: Widespread use leading to inclusion into/onto article (indoor) ; ERC8f: Widespread use leading to inclusion into/onto article (outdoor)</p> <p>Contributing activity/technique for the workers : - PROC 5: Mixing or blending in batch processes - Calendering operations (PROC 6) - PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - PROC 10: Roller application or brushing - PROC 11: Non industrial spraying - PROC 13: Treatment of articles by dipping and pouring - PROC 19: Hand-mixing with intimate contact and only PPE available.</p>

	<p>Product Category used: PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 23: Leather treatment products ; PC 34: Textile dyes, and impregnating products</p> <p>Sector of end use: SU 5: Manufacture of textiles, leather, fur</p> <p>Technical function of the substance: processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Professional service life of textiles and leather articles ; Consumer service life of textiles and leather articles Related assessment: use assessed in an own CSR</p>
PW-6	<p>Professional use as an additive/pigment/auxiliary in plastics, resins, paints, coatings, mastics and inks</p> <p><u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC8c: Widespread use leading to inclusion into/onto article (indoor) ; ERC8f: Widespread use leading to inclusion into/onto article (outdoor)</p> <p>Contributing activity/technique for the workers : - PROC 5: Mixing or blending in batch processes - PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - PROC 10: Roller application or brushing - PROC 11: Non industrial spraying - PROC 13: Treatment of articles by dipping and pouring - PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>Product Category used: PC 1: Adhesives, sealants ; PC 9a: Coatings and paints, thinners, paint removes ; PC 9c: Finger paints ; PC 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 32: Polymer preparations and compounds</p> <p>Sector of end use: SU 6a: Manufacture of wood and wood products ; SU 6b: Manufacture of pulp, paper and paper products ; SU 12: Manufacture of plastics products, including compounding and conversion</p> <p>Technical function of the substance: processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Professional service life of textiles and leather articles ; Consumer service life of wood, paper and plastic articles Related assessment: use assessed in an own CSR</p>
PW-7	<p>Use as a laboratory chemical</p> <p><u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor)</p> <p>Contributing activity/technique for the workers : - PROC 15: Use as laboratory reagent</p> <p>Product Category used: PC 21: Laboratory chemicals</p> <p>Sector of end use: SU 24: Scientific research and development</p> <p>Technical function of the substance: intermediate (precursor) use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>

<p>PW-8</p>	<p>Professional use in water and wastewater treatment <u>Further description of the use:</u></p> <p>Use in the treatment of waste water and in closed process water circuits (for example domestic or institutional boiler/heating circuits, cooling waters, industrial process waters)</p> <p>Contributing activity/technique for the environment : <ul style="list-style-type: none"> - 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) </p> <p>Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities [EU REACH] - PROC 19: Hand-mixing with intimate contact and only PPE available. - PROC 26: Handling of solid inorganic substances at ambient temperature </p> <p>Product Category used: PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 36: Water softeners ; PC 37: Water treatment chemicals Sector of end use: SU 23: Electricity, steam, gas water supply and sewage treatment Technical function of the substance: antiscaling agent ; corrosion inhibitor use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
<p>PW-9</p>	<p>Professional use as a stabiliser for toothpastes, cosmetics and other cosmetic uses <u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment : <ul style="list-style-type: none"> - ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) </p> <p>Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 10: Roller application or brushing - PROC 19: Hand-mixing with intimate contact and only PPE available. - PROC 26: Handling of solid inorganic substances at ambient temperature </p> <p>Product Category used: PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 39: Cosmetics, personal care products Sector of end use: SU 20: Health services Technical function of the substance: processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
<p>PW-10</p>	<p>Professional use of horticulture products containing TSPP <u>Further description of the use:</u></p> <p>Mixing and loading of liquid or solid fertilisers into the equipment and applying with different techniques (spreading, spraying, fertigation etc) for the crop by farmers, growers and contractor</p> <p>Contributing activity/technique for the environment : <ul style="list-style-type: none"> - ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) ; ERC8e: Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) </p> <p>Contributing activity/technique for the workers : <ul style="list-style-type: none"> - PROC 5: Mixing or blending in batch processes - PROC 8a: Transfer of substance or mixture (charging and discharging) at </p>

	<p>non-dedicated facilities</p> <ul style="list-style-type: none"> - = (PROC 8b) - PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - PROC 11: Non industrial spraying - PROC 15: Use as laboratory reagent - PROC 19: Hand-mixing with intimate contact and only PPE available. - PROC 26: Handling of solid inorganic substances at ambient temperature <p>Product Category used: PC 12: Fertilisers ; PC 27: Plant protection products Sector of end use: SU 1: Agriculture, forestry and fishing Technical function of the substance: fertilisers (soil amendments) use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
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Table 2.6. Consumer uses

Consumer uses	
C-1	<p>Consumer use of washing and cleaning products <u>Further description of the use:</u> Contributing activity/technique for the environment: <ul style="list-style-type: none"> - 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 consumers: <ul style="list-style-type: none"> - PC 3: Air care products - PC 8: Biocidal products (e.g. disinfectants, pest control) - PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents - PC 35: Washing and cleaning products - PC 36: Water softeners Technical function of the substance: antiredeposition agent ; cleaning agent ; dispersing agent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
C-2	<p>Consumer use as a binding agent in ceramic materials and in ceramics, cement and plasters <u>Further description of the use:</u> Contributing activity/technique for the environment: <ul style="list-style-type: none"> - ERC8c: Widespread use leading to inclusion into/onto article (indoor) ; ERC8f: Widespread use leading to inclusion into/onto article (outdoor) Contributing activity/technique for consumers: <ul style="list-style-type: none"> - PC 9b: Fillers, putties, plasters, modelling clay Technical function of the substance: binder ; processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Consumer service life of stone, plaster, cement, glass and ceramic articles Related assessment: use assessed in an own CSR</p>
C-3	<p>Consumer use of paints, coatings, mastics and ink products <u>Further description of the use:</u></p>

	<p>Contributing activity/technique for the environment: - ERC8c: Widespread use leading to inclusion into/onto article (indoor) ; ERC8f: Widespread use leading to inclusion into/onto article (outdoor)</p> <p>Contributing activity/technique for consumers: - PC 1: Adhesives, sealants - PC 9a: Coatings and paints, thinners, paint removes - PC 9c: Finger paints - PC 18: Ink and toners</p> <p>Technical function of the substance: processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Consumer service life of wood, paper and plastic articles Related assessment: use assessed in an own CSR</p>
C-4	<p>Consumer use as a stabiliser for toothpastes, cosmetics and other cosmetic uses <u>Further description of the use:</u> Contributing activity/technique for the environment: - ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</p> <p>Contributing activity/technique for consumers: - PC 39: Cosmetics, personal care products</p> <p>Technical function of the substance: processing aid use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>
C-5	<p>Consumer use of horticulture products containing TSPP <u>Further description of the use:</u> Contributing activity/technique for the environment: - ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) ; ERC8e: Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)</p> <p>Contributing activity/technique for consumers: - PC 12: Fertilisers - PC 27: Plant protection products</p> <p>Technical function of the substance: fertilisers (soil amendments) use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Related assessment: use assessed in an own CSR</p>

Table 2.7. Article service life

Article service life	
SL-1	<p>Worker service life of stone, plaster, cement, glass and ceramic articles <u>Further description of the use:</u> Article used by: workers Substance intended to be released from article: no Article category related to subsequent service life (AC): AC 4: Stone, plaster, cement, glass and ceramic articles Contributing activity/technique for the environment: - ERC12a: Processing of articles at industrial sites with low release</p>

	<p>Contributing activity/technique for consumers: Contributing activity/technique for the workers: - PROC 21: Low energy manipulation of substances bound in materials and/or articles Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>
SL-2	<p>Professional service life of stone, plaster, cement, glass and ceramic articles <u>Further description of the use:</u> Article used by: workers Substance intended to be released from article: no Article category related to subsequent service life (AC): AC 4: Stone, plaster, cement, glass and ceramic articles Contributing activity/technique for the environment: - ERC10a: Widespread use of articles with low release (outdoor) ; ERC11a: Widespread use of articles with low release (indoor) Contributing activity/technique for consumers: Contributing activity/technique for the workers: - PROC 21: Low energy manipulation of substances bound in materials and/or articles Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>
SL-3	<p>Consumer service life of stone, plaster, cement, glass and ceramic articles <u>Further description of the use:</u> Article used by: consumers Substance intended to be released from article: no Article category related to subsequent service life (AC): Contributing activity/technique for the environment: - ERC10a: Widespread use of articles with low release (outdoor) ; ERC11a: Widespread use of articles with low release (indoor) Contributing activity/technique for consumers: - AC 4: Stone, plaster, cement, glass and ceramic articles Contributing activity/technique for the workers: Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>
SL-4	<p>Worker service life of textiles and leather articles <u>Further description of the use:</u> Article used by: workers Substance intended to be released from article: no Article category related to subsequent service life (AC): AC 5: Fabrics, textiles and apparel ; AC 6: Leather articles Contributing activity/technique for the environment: - ERC12a: Processing of articles at industrial sites with low release Contributing activity/technique for consumers: Contributing activity/technique for the workers: - PROC 21: Low energy manipulation of substances bound in materials and/or articles Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year</p>

	Related assessment: use assessed in an own CSR
SL-5	<p>Professional service life of textiles and leather articles <u>Further description of the use:</u> Article used by: workers Substance intended to be released from article: no Article category related to subsequent service life (AC): AC 5: Fabrics, textiles and apparel ; AC 6: Leather articles Contributing activity/technique for the environment: - ERC10a: Widespread use of articles with low release (outdoor) ; ERC11a: Widespread use of articles with low release (indoor) Contributing activity/technique for consumers: Contributing activity/technique for the workers: - PROC 21: Low energy manipulation of substances bound in materials and/or articles Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>
SL-6	<p>Consumer service life of textiles and leather articles <u>Further description of the use:</u> Article used by: consumers Substance intended to be released from article: no Article category related to subsequent service life (AC): Contributing activity/technique for the environment: - ERC10a: Widespread use of articles with low release (outdoor) ; ERC11a: Widespread use of articles with low release (indoor) Contributing activity/technique for consumers: - AC 5: Fabrics, textiles and apparel - AC 6: Leather articles Contributing activity/technique for the workers: Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>
SL-7	<p>Worker service life of wood, plastic and paper articles <u>Further description of the use:</u> Article used by: workers Substance intended to be released from article: no Article category related to subsequent service life (AC): AC 8: Paper articles ; AC 11: Wood articles ; AC 13: Plastic articles Contributing activity/technique for the environment: - ERC12a: Processing of articles at industrial sites with low release Contributing activity/technique for consumers: Contributing activity/technique for the workers: - PROC 21: Low energy manipulation of substances bound in materials and/or articles Technical function of the substance: no technical function use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Related assessment: use assessed in an own CSR</p>
SL-8	<p>Professional service life of wood, paper and plastic articles <u>Further description of the use:</u> Article used by: workers</p>

	<p>Substance intended to be released from article: no</p> <p>Article category related to subsequent service life (AC): AC 8: Paper articles ; AC 11: Wood articles ; AC 13: Plastic articles</p> <p>Contributing activity/technique for the environment:</p> <p>- ERC10a: Widespread use of articles with low release (outdoor) ; ERC11a: Widespread use of articles with low release (indoor)</p> <p>Contributing activity/technique for consumers:</p> <p>Contributing activity/technique for the workers:</p> <p>- PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p>Technical function of the substance: no technical function</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Related assessment: use assessed in an own CSR</p>
SL-9	<p>Consumer service life of wood, paper and plastic articles</p> <p><u>Further description of the use:</u></p> <p>Article used by: consumers</p> <p>Substance intended to be released from article: no</p> <p>Article category related to subsequent service life (AC):</p> <p>Contributing activity/technique for the environment:</p> <p>- ERC10a: Widespread use of articles with low release (outdoor) ; ERC11a: Widespread use of articles with low release (indoor)</p> <p>Contributing activity/technique for consumers:</p> <p>- AC 8: Paper articles</p> <p>- AC 11: Wood articles</p> <p>- AC 13: Plastic articles</p> <p>Contributing activity/technique for the workers:</p> <p>Technical function of the substance: no technical function</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Related assessment: use assessed in an own CSR</p>

