

## Generic exposure scenarios for diammonium tetrachlorozincate

Number	Sector	Uses	Code
0	diammonium tetrachlorozincate production	Manufacture Substance	GES <sub>Zn(NH4)Clx</sub> 0
1	Formulation step	Formulation general	GES <sub>Zn(NH4)Clx</sub> 1
2	First tier applications	Manufacturing of other zinc compounds	GES <sub>Zn(NH4)Clx</sub> 2
3		Laboratory reagent	GES <sub>Zn(NH4)Clx</sub> 3
4		As component for solid blends & matrices	GES <sub>Zn(NH4)Clx</sub> 4
5		As component for production of dispersions, pastes and other viscous matrices	GES <sub>Zn(NH4)Clx</sub> 5
6	Second tier applications	DU of Zn(NH4)Clx-containing solid preparations	GES <sub>Zn(NH4)Clx</sub> 6
7		DU of Zn(NH4)Clx-containing liquid & pasty preparations	GES <sub>Zn(NH4)Clx</sub> 7

Numerous uses were identified for diammonium tetrachlorozincate . These are listed in table below, with the indication of the Generic Exposure Scenario (GES) that is relevant to these identified uses.

### Identified uses for Zn(NH4)Clx and corresponding Generic Exposure Scenario (GES)

IU number	Identified Use (IU) name	GES code
1	diammonium tetrachlorozincate production and refining	GES <sub>Zn(NH4)Clx</sub> 0
5	Production of inorganic zinc compounds	GES <sub>Zn(NH4)Clx</sub> 2
6	Electroplating	GES <sub>Zn(NH4)Clx</sub> 2
7	Production of Zn(NH4)Clx-based fluxing agents	GES <sub>Zn(NH4)Clx</sub> 2
8	steel surface treatment prior to hot-dip galvanizing	GES <sub>Zn(NH4)Clx</sub> 4, GES <sub>Zn(NH4)Clx</sub> 5
9	Use of Zn(NH4)Clx-based fluxing agents before welding/soldering processes	GES <sub>Zn(NH4)Clx</sub> 6, Generic consumer/environment*
10	Laboratory reagent	GES <sub>Zn(NH4)Clx</sub> 3
11	Production of organic zinc compounds	GES <sub>Zn(NH4)Clx</sub> 2
12	Production of coatings, paints, inks, enamels, varnishes	GES <sub>Zn(NH4)Clx</sub> 1, GES <sub>Zn(NH4)Clx</sub> 4
13	Component for paper coating or treatment for paper products	GES <sub>Zn(NH4)Clx</sub> 1, GES <sub>Zn(NH4)Clx</sub> 5
14	Use of Zn(NH4)Clx-containing paper coatings	GES <sub>Zn(NH4)Clx</sub> 6, Generic consumer/environment*
15	Textile and leather coating treatment	GES <sub>Zn(NH4)Clx</sub> 1, GES <sub>Zn(NH4)Clx</sub> 5
16	Use of Zn(NH4)Clx-containing coatings for textile and leather	GES <sub>Zn(NH4)Clx</sub> 6, Generic consumer/environment*

<b>IU number</b>	<b>Identified Use (IU) name</b>	<b>GES code</b>
17	Batteries /fuel cells	GESZnCl 1, GESZn(NH4)Clx 4, GESZn(NH4)Clx 5
18	Component for production of rubber, resins and related preparations	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
19	Production of polymer-matrices, plastics and related preparations	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
20	Additive / component for the production of Sealants / Adhesives / Mastics	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
21	Use of Zn(NH4)Clx-containing Sealants / Adhesives / Mastics	GESZn(NH4)Clx 7, Generic consumer/environment*
22	Additive / component for the production of Lubricants / Grease / Metal working fluids	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
23	Use of Zn(NH4)Clx-containing Lubricants / Grease / Metal working fluids	GESZn(NH4)Clx 7, Generic consumer/environment*
24	Additive / component for the production of Polishes / wax blends	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
25	Use of Zn(NH4)Clx-containing Polishes / wax blends	GESZn(NH4)Clx 7, Generic consumer/environment*
26	Use of Zn(NH4)Clx-containing catalysts	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
27	Additive component for production of de-icing products	GESZn(NH4)Clx 1, GESZn(NH4)Clx 5
28	Use of Zn(NH4)Clx-containing de-icing products	GESZn(NH4)Clx 7, Generic consumer/environment*
29	Additive for the formulation of fertilizers	GESZn(NH4)Clx 1, GESZn(NH4)Clx 4, GESZn(NH4)Clx 5
30	Use of Zn(NH4)Clx-containing fertilizer's formulations	Generic consumer/environment*
31	Additive for the formulation of biocidal products	GESZn(NH4)Clx 1, GESZn(NH4)Clx 4, GESZn(NH4)Clx 5
32	Additive for the formulation of cleaning products	GESZn(NH4)Clx 1, GESZn(NH4)Clx 4, GESZn(NH4)Clx 5
33	Use of Zn(NH4)Clx-containing cleaning products	GESZn(NH4)Clx 6, GESZn(NH4)Clx 7, Generic consumer/environment*
34	Additive in the formulation of cosmetics	GESZn(NH4)Clx 1, GESZn(NH4)Clx 4, GESZn(NH4)Clx 5
35	Use of cosmetics	GESZn(NH4)Clx 6, GESZn(NH4)Clx 7, Generic consumer/environment*
36	Additive in the formulation of pharma / veterinary products	GESZn(NH4)Clx 1, GESZn(NH4)Clx 4, GESZn(NH4)Clx 5
37	Use of Pharma/veterinary products	GESZn(NH4)Clx 6, GESZn(NH4)Clx 7, Generic consumer/environment*

\* corresponds to "GES 8" in IUCLID

**Uses by workers in industrial settings**

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
1	diammonium tetrachlorozincate production and refining	as such (substance itself)	<p><b>Process category (PROC):</b></p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure            PROC 3: Use in closed batch process (synthesis or formulation)            PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)            PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents            PC 21: Laboratory chemicals            PC 12: Fertilisers            PC 14: Metal surface treatment products, including galvanic and electroplating products            PC 19: Intermediate</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances</p> <p><b>Sector of end use (SU):</b></p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)            SU 9: Manufacture of fine chemicals</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
5	Production of inorganic zinc compounds	as such (substance itself)	<p><b>Process category (PROC):</b></p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure            PROC 3: Use in closed batch process (synthesis or formulation)            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>filling line, including weighing) PROC 15: Use as laboratory reagent</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 19: Intermediate PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents PC 21: Laboratory chemicals</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances ERC 2: Formulation of preparations ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p><b>Sector of end use (SU):</b></p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
6	Electroplating	as such (substance itself)	<p><b>Process category (PROC):</b></p> <p>PROC 3: Use in closed batch process (synthesis or formulation) PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 7: Base metals and alloys PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p><b>Environmental release category (ERC):</b></p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 2: Formulation of preparations ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b></p> <p>SU 15: Manufacture of fabricated metal products, except machinery and equipment SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment SU 0: Other: NACE C25.6.1: Treatment and coating of metals</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 2: Machinery, mechanical appliances, electrical/electronic articles AC 7: Metal articles</p>
7	Production of Zn(NH <sub>4</sub> )Cl <sub>x</sub> -based fluxing agents	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 15: Use as laboratory reagent</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 19: Intermediate PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents PC 21: Laboratory chemicals</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 2: Formulation of preparations  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p><b>Sector of end use (SU):</b>  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 9: Manufacture of fine chemicals  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
8	steel surface treatment prior to hot-dip galvanizing	as such (substance itself)	<p><b>Process category (PROC):</b>  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 13: Treatment of articles by dipping and pouring  PROC 25: Other hot work operations with metals</p> <p><b>Market sector by type of chemical product:</b>  PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 38: Welding and soldering products (with flux coatings or flux cores.), flux products</p> <p><b>Environmental release category (ERC):</b>  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p><b>Sector of end use (SU):</b></p> <ul style="list-style-type: none"> <li>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</li> <li>SU 14: Manufacture of basic metals, including alloys</li> <li>SU 15: Manufacture of fabricated metal products, except machinery and equipment</li> <li>SU 18: Manufacture of furniture</li> <li>SU 19: Building and construction work</li> <li>SU 0: Other: Nace C23.9.9: Manufacture of other non-metallic mineral products n.e.c.</li> </ul> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <ul style="list-style-type: none"> <li>AC 1: Vehicles</li> <li>AC 2: Machinery, mechanical appliances, electrical/electronic articles</li> <li>AC 3: Electrical batteries and accumulators</li> <li>AC 7: Metal articles</li> </ul>
10	Laboratory reagent	as such (substance itself)	<p><b>Process category (PROC):</b></p> <ul style="list-style-type: none"> <li>PROC 1: Use in closed process, no likelihood of exposure</li> <li>PROC 2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC 3: Use in closed batch process (synthesis or formulation)</li> <li>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</li> <li>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</li> <li>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</li> <li>PROC 15: Use as laboratory reagent</li> </ul> <p><b>Market sector by type of chemical product:</b></p> <ul style="list-style-type: none"> <li>PC 19: Intermediate</li> <li>PC 21: Laboratory chemicals</li> </ul>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PC 28: Perfumes, fragrances PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances ERC 2: Formulation of preparations ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC 6b: Industrial use of reactive processing aids ERC 8a: Wide dispersive indoor use of processing aids in open systems ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p><b>Sector of end use (SU):</b></p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU 24: Scientific research and development</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
11	Production of organic zinc compounds	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 1: Use in closed process, no likelihood of exposure PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 15: Use as laboratory reagent</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 19: Intermediate PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation</p>



IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>agents  PC 21: Laboratory chemicals  PC 24: Lubricants, greases, release products  PC 29: Pharmaceuticals  PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b>  ERC 1: Manufacture of substances  ERC 2: Formulation of preparations  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p><b>Sector of end use (SU):</b>  SU 9: Manufacture of fine chemicals  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
12	Production of coatings, paints, inks, enamels, varnishes	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b>  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p><b>Market sector by type of chemical product:</b>  PC 1: Adhesives, sealants  PC 9a: Coatings and paints, thinners, paint removes</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PC 9b: Fillers, putties, plasters, modelling clay  PC 9c: Finger paints  PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 15: Non-metal-surface treatment products  PC 18: Ink and toners  PC 26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids  PC 32: Polymer preparations and compounds</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances  ERC 2: Formulation of preparations  ERC 3: Formulation in materials  ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 7: Industrial use of substances in closed systems</p> <p><b>Sector of end use (SU):</b></p> <p>SU 5: Manufacture of textiles, leather, fur  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 9: Manufacture of fine chemicals  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)  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</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
13	Component for paper coating or treatment for paper products	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 3: Use in closed batch process (synthesis or formulation)  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 6: Calendering operations</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 9a: Coatings and paints, thinners, paint removes</p> <p>PC 15: Non-metal-surface treatment products</p> <p>PC 18: Ink and toners</p> <p>PC 21: Laboratory chemicals</p> <p>PC 35: Washing and cleaning products (including solvent based products)</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>PC 23: Leather tanning, dye, finishing, impregnation and care products</p> <p>PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 2: Formulation of preparations</p> <p>ERC 6b: Industrial use of reactive processing aids</p> <p><b>Sector of end use (SU):</b></p> <p>SU 6b: Manufacture of pulp, paper and paper products</p> <p>SU 7: Printing and reproduction of recorded media</p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> <p>SU 9: Manufacture of fine chemicals</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
14	Use of Zn(NH4)Clx-containing paper coatings	in a mixture	<b>Process category (PROC):</b>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 6: Calendering operations</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 1: Adhesives, sealants</p> <p>PC 9a: Coatings and paints, thinners, paint removes</p> <p>PC 9b: Fillers, putties, plasters, modelling clay</p> <p>PC 9c: Finger paints</p> <p>PC 15: Non-metal-surface treatment products</p> <p>PC 18: Ink and toners</p> <p>PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p>ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p>ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release</p> <p>ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)</p> <p><b>Sector of end use (SU):</b></p> <p>SU 6b: Manufacture of pulp, paper and paper products</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b> AC 01: Other (non intended to be released): coatings in art and creative items</p>
15	Textile and leather coating treatment	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b>  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 6: Calendering operations  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 13: Treatment of articles by dipping and pouring</p> <p><b>Market sector by type of chemical product:</b>  PC 9a: Coatings and paints, thinners, paint removes  PC 15: Non-metal-surface treatment products  PC 19: Intermediate  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 21: Laboratory chemicals  PC 23: Leather tanning, dye, finishing, impregnation and care products  PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids  PC 35: Washing and cleaning products (including solvent based products)</p> <p><b>Environmental release category (ERC):</b>  ERC 2: Formulation of preparations  ERC 6b: Industrial use of reactive processing aids</p> <p><b>Sector of end use (SU):</b></p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>SU 5: Manufacture of textiles, leather, fur  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 9: Manufacture of fine chemicals  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b>  AC 6: Leather articles  AC 5: Fabrics, textiles and apparel</p>
16	Use of Zn(NH4)Clx-containing coatings for textile and leather	in a mixture	<p><b>Process category (PROC):</b>  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 6: Calendering operations  PROC 19: Hand-mixing with intimate contact and only PPE available.  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 13: Treatment of articles by dipping and pouring</p> <p><b>Market sector by type of chemical product:</b>  PC 15: Non-metal-surface treatment products  PC 23: Leather tanning, dye, finishing, impregnation and care products  PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids</p> <p><b>Environmental release category (ERC):</b>  ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p><b>Sector of end use (SU):</b></p> <p>SU 5: Manufacture of textiles, leather, fur  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 5: Fabrics, textiles and apparel  AC 6: Leather articles</p>
17	Batteries /fuel cells	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 3: Use in closed batch process (synthesis or formulation)  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation  PROC 13: Treatment of articles by dipping and pouring</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 19: Intermediate  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 21: Laboratory chemicals</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 2: Formulation of preparations  ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b></p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>SU 16: Manufacture of computer, electronic and optical products, electrical equipment  SU 0: Other: Nace C27.2: Manufacture of batteries and accumulators</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b>  AC 3: Electrical batteries and accumulators</p>
18	Component for production of rubber, resins and related preparations	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 10: Roller application or brushing  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 13: Treatment of articles by dipping and pouring  PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation  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</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 9a: Coatings and paints, thinners, paint removes  PC 9b: Fillers, putties, plasters, modelling clay  PC 9c: Finger paints  PC 18: Ink and toners  PC 19: Intermediate  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 24: Lubricants, greases, release products  PC 32: Polymer preparations and compounds</p>



IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PC 33: Semiconductors</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 2: Formulation of preparations  ERC 3: Formulation in materials  ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p><b>Sector of end use (SU):</b></p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)  SU 11: Manufacture of rubber products</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 10: Rubber articles</p>
19	Production of polymer-matrices, plastics and related preparations	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 6: Calendering operations  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 10: Roller application or brushing</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 13: Treatment of articles by dipping and pouring            PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation            PROC 21: Low energy manipulation of substances bound in materials and/or articles            PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 19: Intermediate            PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents            PC 32: Polymer preparations and compounds            PC 33: Semiconductors</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances            ERC 3: Formulation in materials            ERC 5: Industrial use resulting in inclusion into or onto a matrix            ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p><b>Sector of end use (SU):</b></p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)            SU 12: Manufacture of plastics products, including compounding and conversion</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles            AC 2: Machinery, mechanical appliances, electrical/electronic articles            AC 3: Electrical batteries and accumulators            AC 13: Plastic articles</p>
20	Additive / component for the production of Sealants /	as such (substance	<b>Process category (PROC):</b>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
	Adhesives / Mastics	itself) in a mixture	<p>PROC 3: Use in closed batch process (synthesis or formulation)            PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation 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: Production of preparations or articles by tableting, compression, extrusion, pelletisation            PROC 20: Heat and pressure transfer fluids in dispersive, professional use but closed systems            PROC 21: Low energy manipulation of substances bound in materials and/or articles            PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 1: Adhesives, sealants            PC 9a: Coatings and paints, thinners, paint removes            PC 14: Metal surface treatment products, including galvanic and electroplating products            PC 19: Intermediate            PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents            PC 24: Lubricants, greases, release products            PC 32: Polymer preparations and compounds</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances            ERC 2: Formulation of preparations            ERC 3: Formulation in materials            ERC 5: Industrial use resulting in inclusion into or onto a matrix</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p>ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers</p> <p>ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p>ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</p> <p>ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release</p> <p>ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)</p> <p>ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p><b>Sector of end use (SU):</b></p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles</p> <p>AC 2: Machinery, mechanical appliances, electrical/electronic articles</p> <p>AC 7: Metal articles</p> <p>AC 11: Wood articles</p>
22	Additive / component for the production of Lubricants / Grease / Metal working fluids	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 10: Roller application or brushing  PROC 13: Treatment of articles by dipping and pouring</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 24: Lubricants, greases, release products  PC 25: Metal working fluids  PC 32: Polymer preparations and compounds</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances  ERC 2: Formulation of preparations  ERC 3: Formulation in materials  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)  ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers  ERC 8b: Wide dispersive indoor use of reactive substances in open systems  ERC 9a: Wide dispersive indoor use of substances in closed systems  ERC 9b: Wide dispersive outdoor use of substances in closed systems  ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p><b>Sector of end use (SU):</b></p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)  SU 18: Manufacture of furniture</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			AC 7: Metal articles
24	Additive / component for the production of Polishes / wax blends	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 3: Use in closed batch process (synthesis or formulation)  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 7: Industrial spraying  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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><b>Market sector by type of chemical product:</b></p> <p>PC 9c: Finger paints  PC 9a: Coatings and paints, thinners, paint removes  PC 9b: Fillers, putties, plasters, modelling clay  PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 25: Metal working fluids  PC 31: Polishes and wax blends</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances  ERC 2: Formulation of preparations  ERC 3: Formulation in materials  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)  ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 8a: Wide dispersive indoor use of processing aids in open systems ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p><b>Sector of end use (SU):</b> SU 9: Manufacture of fine chemicals SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU 18: Manufacture of furniture</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b> AC 1: Vehicles AC 2: Machinery, mechanical appliances, electrical/electronic articles AC 7: Metal articles</p>
26	Use of Zn(NH <sub>4</sub> )Cl <sub>x</sub> -containing catalysts	in a mixture	<p><b>Process category (PROC):</b> PROC 1: Use in closed process, no likelihood of exposure PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p><b>Market sector by type of chemical product:</b> PC 2: Adsorbents PC 9a: Coatings and paints, thinners, paint removes PC 9b: Fillers, putties, plasters, modelling clay PC 9c: Finger paints PC 19: Intermediate PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>agents PC 40: Extraction agents</p> <p><b>Environmental release category (ERC):</b>  ERC 1: Manufacture of substances  ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)  ERC 6b: Industrial use of reactive processing aids</p> <p><b>Sector of end use (SU):</b>  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 9: Manufacture of fine chemicals  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
27	Additive component for production of de-icing products	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b>  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p><b>Market sector by type of chemical product:</b>  PC 4: Anti-freeze and de-icing products  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 35: Washing and cleaning products (including solvent based products)</p> <p><b>Environmental release category (ERC):</b></p>



IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 2: Formulation of preparations  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix  ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b>  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 9: Manufacture of fine chemicals</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
31	Additive for the formulation of biocidal products	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b>  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p><b>Market sector by type of chemical product:</b>  PC 8: Biocidal products (e.g. disinfectants, pest control)  PC 37: Water treatment chemicals</p> <p><b>Environmental release category (ERC):</b>  ERC 2: Formulation of preparations</p> <p><b>Sector of end use (SU):</b>  SU 9: Manufacture of fine chemicals  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
32	Additive for the formulation of cleaning products	as such (substance itself)	<p><b>Process category (PROC):</b>  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
		in a mixture	<p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 8: Biocidal products (e.g. disinfectants, pest control)            PC 35: Washing and cleaning products (including solvent based products)            PC 37: Water treatment chemicals</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 2: Formulation of preparations            ERC 8a: Wide dispersive indoor use of processing aids in open systems            ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p><b>Sector of end use (SU):</b></p> <p>SU 9: Manufacture of fine chemicals            SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
29	Additive for the formulation of fertilizers	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 1: Use in closed process, no likelihood of exposure            PROC 2: Use in closed, continuous process with occasional controlled exposure            PROC 3: Use in closed batch process (synthesis or formulation)            PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises            PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)            PROC 13: Treatment of articles by dipping and pouring</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p><b>Market sector by type of chemical product:</b></p> <p>PC 9b: Fillers, putties, plasters, modelling clay  PC 12: Fertilisers  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 21: Laboratory chemicals</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 2: Formulation of preparations  ERC 3: Formulation in materials  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)  ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b></p> <p>SU 1: Agriculture, forestry and fishing  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
34	Additive in the formulation of cosmetics	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 13: Treatment of articles by dipping and pouring</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation            PROC 15: Use as laboratory reagent</p> <p><b>Market sector by type of chemical product:</b>            PC 28: Perfumes, fragrances            PC 35: Washing and cleaning products (including solvent based products)            PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b>            ERC 2: Formulation of preparations            ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b>            SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
36	Additive in the formulation of pharma / veterinary products	as such (substance itself)  in a mixture	<p><b>Process category (PROC):</b>            PROC 1: Use in closed process, no likelihood of exposure            PROC 2: Use in closed, continuous process with occasional controlled exposure            PROC 3: Use in closed batch process (synthesis or formulation)            PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)            PROC 13: Treatment of articles by dipping and pouring            PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation            PROC 15: Use as laboratory reagent</p> <p><b>Market sector by type of chemical product:</b>            PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>agents PC 21: Laboratory chemicals PC 29: Pharmaceuticals</p> <p><b>Environmental release category (ERC):</b> ERC 2: Formulation of preparations ERC 5: Industrial use resulting in inclusion into or onto a matrix ERC 8a: Wide dispersive indoor use of processing aids in open systems ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p><b>Sector of end use (SU):</b> SU 9: Manufacture of fine chemicals SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU 20: Health services SU 0: Other: Nace C21.1: Manufacture of basic pharmaceutical products</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>

#### Uses by professional workers

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
9	Use of Zn(NH <sub>4</sub> )Cl <sub>x</sub> -based fluxing agents before welding/soldering processes	as such (substance itself)	<p><b>Process category (PROC):</b> PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 13: Treatment of articles by dipping and pouring PROC 25: Other hot work operations with metals</p> <p><b>Market sector by type of chemical product:</b> PC 7: Base metals and alloys</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PC 25: Metal working fluids  PC 38: Welding and soldering products (with flux coatings or flux cores.), flux products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 3: Formulation in materials  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)</p> <p><b>Sector of end use (SU):</b>  SU 18: Manufacture of furniture  SU 0: Other:Nace C23.9.9: Manufacture of other non-metallic mineral products n.e.c.  SU 14: Manufacture of basic metals, including alloys  SU 15: Manufacture of fabricated metal products, except machinery and equipment  SU 19: Building and construction work</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 3: Electrical batteries and accumulators  AC 7: Metal articles</p>
10	Laboratory reagent	as such (substance itself)	<p><b>Process category (PROC):</b></p> <p>PROC 3: Use in closed batch process (synthesis or formulation)  PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 1: Use in closed process, no likelihood of exposure</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 2: Use in closed, continuous process with occasional controlled exposure            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)            PROC 15: Use as laboratory reagent</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 19: Intermediate            PC 21: Laboratory chemicals            PC 28: Perfumes, fragrances            PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances            ERC 2: Formulation of preparations            ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles            ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)            ERC 6b: Industrial use of reactive processing aids            ERC 8a: Wide dispersive indoor use of processing aids in open systems            ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p><b>Sector of end use (SU):</b></p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)            SU 24: Scientific research and development</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
14	Use of Zn(NH <sub>4</sub> )Clx-paper coatings	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises            PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 6: Calendering operations  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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> <p><b>Market sector by type of chemical product:</b></p> <p>PC 1: Adhesives, sealants  PC 9a: Coatings and paints, thinners, paint removes  PC 9b: Fillers, putties, plasters, modelling clay  PC 9c: Finger paints  PC 15: Non-metal-surface treatment products  PC 18: Ink and toners  PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p><b>Sector of end use (SU):</b>  SU 6b: Manufacture of pulp, paper and paper products  SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b>  AC 01: Other (non intended to be released):coating for art, creative items</p>



IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
16	Use of Zn(NH <sub>4</sub> )Cl <sub>x</sub> -formulations in textile and leather coating/treatment	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 6: Calendering operations</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 15: Non-metal-surface treatment products</p> <p>PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids</p> <p>PC 23: Leather tanning, dye, finishing, impregnation and care products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p>ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p>ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release</p> <p><b>Sector of end use (SU):</b></p> <p>SU 5: Manufacture of textiles, leather, fur</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			AC 6: Leather articles AC 5: Fabrics, textiles and apparel
21	Use of Zn(NH <sub>4</sub> )Cl <sub>x</sub> -containing Sealants / Adhesives / Mastics	as such (substance itself)	<p><b>Process category (PROC):</b></p> <p>PROC 7: Industrial spraying            PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation 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: Production of preparations or articles by tableting, compression, extrusion, pelletisation            PROC 17: Lubrication at high energy conditions and in partly open process            PROC 19: Hand-mixing with intimate contact and only PPE available.            PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 1: Adhesives, sealants            PC 9a: Coatings and paints, thinners, paint removes            PC 9b: Fillers, putties, plasters, modelling clay            PC 9c: Finger paints            PC 14: Metal surface treatment products, including galvanic and electroplating products            PC 19: Intermediate            PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents            PC 24: Lubricants, greases, release products            PC 32: Polymer preparations and compounds</p> <p><b>Environmental release category (ERC):</b></p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b></p> <p>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 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 15: Manufacture of fabricated metal products, except machinery and equipment  SU 19: Building and construction work</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 7: Metal articles  AC 11: Wood articles</p>
23	Use of Zn(NH4)Clx-containing Lubricants / Grease / Metal working fluids	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 7: Industrial spraying  PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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: Production of preparations or articles by tableting, compression,</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>extrusion, pelletisation  PROC 17: Lubrication at high energy conditions and in partly open process  PROC 19: Hand-mixing with intimate contact and only PPE available.  PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 24: Lubricants, greases, release products  PC 25: Metal working fluids  PC 32: Polymer preparations and compounds</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b></p> <p>SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment  SU 18: Manufacture of furniture</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 7: Metal articles  AC 11: Wood articles</p>
25	Use of Zn(NH <sub>4</sub> )Clx-containing Polishes / wax blends	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 7: Industrial spraying  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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: Production of preparations or articles by tableting, compression, extrusion, pelletisation  PROC 19: Hand-mixing with intimate contact and only PPE available.  PROC 21: Low energy manipulation of substances bound in materials and/or articles  PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 9a: Coatings and paints, thinners, paint removes  PC 9b: Fillers, putties, plasters, modelling clay  PC 9c: Finger paints  PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 25: Metal working fluids  PC 31: Polishes and wax blends</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p><b>Sector of end use (SU):</b></p> <p>SU 9: Manufacture of fine chemicals  SU 18: Manufacture of furniture</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 7: Metal articles  AC 11: Wood articles</p>
28	Use of Zn(NH <sub>4</sub> )Clx-containing de-icing products	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 7: Industrial spraying  PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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: Production of preparations or articles by tableting, compression, extrusion, pelletisation  PROC 19: Hand-mixing with intimate contact and only PPE available.  PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 4: Anti-freeze and de-icing products  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 35: Washing and cleaning products (including solvent based products)</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p><b>Sector of end use (SU):</b></p> <p>SU 9: Manufacture of fine chemicals  SU 18: Manufacture of furniture</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
30	Use of Zn(NH <sub>4</sub> )Clx-containing fertilizer's formulations	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 7: Industrial spraying  PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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.  PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 9b: Fillers, putties, plasters, modelling clay  PC 12: Fertilisers  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 8e: Wide dispersive outdoor use of reactive substances in open systems  ERC 9b: Wide dispersive outdoor use of substances in closed systems  ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high</p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>or intended release (including abrasive processing)</p> <p><b>Sector of end use (SU):</b></p> <p>SU 1: Agriculture, forestry and fishing  SU 9: Manufacture of fine chemicals</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
33	Use of Zn(NH <sub>4</sub> )Cl <sub>x</sub> -containing cleaning products	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation 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</p> <p><b>Market sector by type of chemical product:</b></p> <p>PC 8: Biocidal products (e.g. disinfectants, pest control)  PC 35: Washing and cleaning products (including solvent based products)  PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p><b>Sector of end use (SU):</b></p> <p>SU 9: Manufacture of fine chemicals</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
35	Use of cosmetics	in a mixture	<p><b>Process category (PROC):</b></p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p>



IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)            PROC 10: Roller application or brushing            PROC 11: Non industrial spraying</p> <p><b>Market sector by type of chemical product:</b>            PC 28: Perfumes, fragrances            PC 35: Washing and cleaning products (including solvent based products)            PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b>            ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p><b>Sector of end use (SU):</b>            SU 9: Manufacture of fine chemicals</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
37	Use of Pharma/veterinary products	in a mixture	<p><b>Process category (PROC):</b>            PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities            PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)            PROC 10: Roller application or brushing            PROC 11: Non industrial spraying</p> <p><b>Market sector by type of chemical product:</b>            PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents            PC 21: Laboratory chemicals            PC 29: Pharmaceuticals</p> <p><b>Environmental release category (ERC):</b></p>

IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
			<p>ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p><b>Sector of end use (SU):</b></p> <p>SU 20: Health services</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>

### Uses by consumers

IU number	Identified Use (IU) name	Use descriptors
9	Use of Zn(NH <sub>4</sub> )Clx- based fluxing agents before welding/soldering processes	<p><b>Chemical product category (PC):</b></p> <p>PC 7: Base metals and alloys  PC 25: Metal working fluids  PC 38: Welding and soldering products (with flux coatings or flux cores.), flux products</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 3: Formulation in materials  ERC 5: Industrial use resulting in inclusion into or onto a matrix  ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 3: Electrical batteries and accumulators  AC 7: Metal articles</p>

IU number	Identified Use (IU) name	Use descriptors
21	Use of Zn(NH4)Clx-containing Sealants/ Adhesives/ Mastics	<p><b>Chemical product category (PC):</b></p> <ul style="list-style-type: none"> <li>PC 1: Adhesives, sealants</li> <li>PC 9a: Coatings and paints, thinners, paint removes</li> <li>PC 9b: Fillers, putties, plasters, modelling clay</li> <li>PC 9c: Finger paints</li> <li>PC 14: Metal surface treatment products, including galvanic and electroplating products</li> <li>PC 19: Intermediate</li> <li>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</li> <li>PC 24: Lubricants, greases, release products</li> <li>PC 32: Polymer preparations and compounds</li> </ul> <p><b>Environmental release category (ERC):</b></p> <ul style="list-style-type: none"> <li>ERC 8a: Wide dispersive indoor use of processing aids in open systems</li> <li>ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</li> <li>ERC 8d: Wide dispersive outdoor use of processing aids in open systems</li> <li>ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</li> </ul> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <ul style="list-style-type: none"> <li>AC 1: Vehicles</li> <li>AC 2: Machinery, mechanical appliances, electrical/electronic articles</li> <li>AC 7: Metal articles</li> <li>AC 11: Wood articles</li> </ul>
23	Use of Zn(NH4)Clx-containing Lubricants / Grease / Metal working fluids	<p><b>Chemical product category (PC):</b></p> <ul style="list-style-type: none"> <li>PC 14: Metal surface treatment products, including galvanic and electroplating products</li> <li>PC 24: Lubricants, greases, release products</li> <li>PC 25: Metal working fluids</li> <li>PC 32: Polymer preparations and compounds</li> </ul> <p><b>Environmental release category (ERC):</b></p> <ul style="list-style-type: none"> <li>ERC 8a: Wide dispersive indoor use of processing aids in open systems</li> <li>ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</li> <li>ERC 8d: Wide dispersive outdoor use of processing aids in open systems</li> <li>ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</li> </ul>

IU number	Identified Use (IU) name	Use descriptors
		<p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 7: Metal articles  AC 11: Wood articles</p>
25	Use of Zn(NH <sub>4</sub> )Clx-containing Polishes / wax blends	<p><b>Chemical product category (PC):</b></p> <p>PC 9a: Coatings and paints, thinners, paint removes  PC 9b: Fillers, putties, plasters, modelling clay  PC 9c: Finger paints  PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 25: Metal working fluids  PC 31: Polishes and wax blends</p> <p><b>Environmental release category (ERC):</b></p> <p>ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p> <p><b>Article category related to subsequent service life (AC):</b></p> <p>AC 1: Vehicles  AC 2: Machinery, mechanical appliances, electrical/electronic articles  AC 7: Metal articles  AC 11: Wood articles</p>
28	Use of Zn(NH <sub>4</sub> )Clx-containing de-icing products	<p><b>Chemical product category (PC):</b></p> <p>PC 4: Anti-freeze and de-icing products  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents  PC 35: Washing and cleaning products (including solvent based products)</p>

IU number	Identified Use (IU) name	Use descriptors
		<p><b>Environmental release category (ERC):</b>  ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
30	Use of Zn(NH <sub>4</sub> )Clx-containing fertilizer's formulations	<p><b>Chemical product category (PC):</b>  PC 9b: Fillers, putties, plasters, modelling clay  PC 12: Fertilisers  PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p><b>Environmental release category (ERC):</b>  ERC 8a: Wide dispersive indoor use of processing aids in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems  ERC 8d: Wide dispersive outdoor use of processing aids in open systems  ERC 8e: Wide dispersive outdoor use of reactive substances in open systems  ERC 9b: Wide dispersive outdoor use of substances in closed systems  ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
33	Use of Zn(NH <sub>4</sub> )Clx-containing cleaning products	<p><b>Chemical product category (PC):</b>  PC 8: Biocidal products (e.g. disinfectants, pest control)  PC 35: Washing and cleaning products (including solvent based products)  PC 39: Cosmetics, personal care products</p> <p><b>Environmental release category (ERC):</b>  ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p><b>Subsequent service life relevant for that use?:</b> yes</p>
35	Use of cosmetics	<p><b>Chemical product category (PC):</b>  PC 28: Perfumes, fragrances  PC 35: Washing and cleaning products (including solvent based products)  PC 36: Water softeners</p>

<b>IU number</b>	<b>Identified Use (IU) name</b>	<b>Use descriptors</b>
		<p data-bbox="963 300 1415 327"><b>Environmental release category (ERC):</b></p> <p data-bbox="992 339 1756 367">ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p data-bbox="963 395 1525 422"><b>Subsequent service life relevant for that use?:</b> yes</p>
37	Use of Pharma / veterinary products	<p data-bbox="963 443 1346 470"><b>Chemical product category (PC):</b></p> <p data-bbox="992 483 1899 510">PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p data-bbox="992 512 1305 539">PC 21: Laboratory chemicals</p> <p data-bbox="992 541 1249 568">PC 29: Pharmaceuticals</p> <p data-bbox="963 603 1415 630"><b>Environmental release category (ERC):</b></p> <p data-bbox="992 643 1756 670">ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p data-bbox="963 699 1525 726"><b>Subsequent service life relevant for that use?:</b> yes</p>