

IU	Identified use name	Process category	Environmental release category	Substance supplied to that use in form of	Market sector by type of chemical product	Sector of end use	Subsequent service life relevant for that use?
Uses by workers in industrial settings							
1	surface spreading or incorporation at open field and/or forest fertilization. Fertilization of amenity (park, public lawns, sport fields, golf courses)	PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	ERC 8e: Wide dispersive outdoor use of reactive substances in open systems	As such	PC 12: Fertilisers	SU 1: Agriculture, forestry and fishing	yes
2	surface spreading or incorporation through pipes at open field. Fertilization of amenity (parks, public lawns, sport fields, golf courses)	PROC 13: Treatment of articles by dipping and pouring	ERC 8e: Wide dispersive outdoor use of reactive substances in open systems	As such	PC 12: Fertilisers	SU 1: Agriculture, forestry and fishing	yes
3	Packaging of fertilizer	PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 2: Formulation of preparations	As such		SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	yes

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4	loading and unloading	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)		As such In a mixture		SU 0: Other: SU 3: industrial use, SU22- professional use	yes
5	Resin and polymers manufacture	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	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 5: Industrial use resulting in inclusion into or onto a matrix ERC 6a: Industrial use resulting in manufacture of	As such	PC 1: Adhesives, sealants PC 2: Adsorbents PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents PC 21: Laboratory chemicals PC 19: Intermediate	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 23: Electricity, steam, gas water supply and sewage treatment	yes

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		for formulation of preparations and articles (multistage and/or significant contact) 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	another substance (use of intermediates) ERC 6c: Industrial use of monomers for manufacture of thermoplastics ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers ERC 7: Industrial use of substances in closed systems			SU 11: Manufacture of rubber products	

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		PROC 15: Use as laboratory reagent PROC 21: Low energy manipulation of substances bound in materials and/or articles					
6	Waste gas treatment - NOx reduction	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)	ERC 6b: Industrial use of reactive processing aids ERC 8a: Wide dispersive indoor use of processing aids in open systems ERC 9b: Wide dispersive outdoor use of substances in closed systems	As such		SU 23: Electricity, steam, gas water supply and sewage treatment	yes
7	manufacture of textiles, leather, fur	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)	ERC 5: Industrial use resulting in inclusion into or onto a matrix	As such	PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids	SU 5: Manufacture of textiles, leather, fur	yes

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8	raw material in the cement and glass industry	<p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 7: Industrial spraying</p> <p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p>	<p>ERC 1: Manufacture of substances</p> <p>ERC 2: Formulation of preparations</p> <p>ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p>ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</p>	As such		<p>SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement</p> <p>SU 23: Electricity, steam, gas water supply and sewage treatment</p>	yes

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		PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 10: Roller application or brushing 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					
9	production of pharmaceuticals and cosmetics	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	ERC 1: Manufacture of substances ERC 2: Formulation of preparations ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC 7: Industrial use of substances in	As such	PC 19: Intermediate PC 29: Pharmaceuticals PC 39: Cosmetics, personal care products	SU 9: Manufacture of fine chemicals SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	yes

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		<p>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 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</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 15: Use as</p>	closed systems				

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		laboratory reagent PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation					
10	raw material for further synthesis	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 9: Transfer of substance or preparation	ERC 1: Manufacture of substances ERC 2: Formulation of preparations ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC 6b: Industrial use of reactive processing aids ERC 6c: Industrial use of monomers for manufacture of thermoplastics ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins,	As such	PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents	SU 9: Manufacture of fine chemicals SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement	yes



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		into small containers (dedicated filling line, including weighing) PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation	rubbers, polymers				
11	use in cosmetic industry	PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 8a: Wide dispersive indoor use of processing aids in open systems	As such	PC 39: Cosmetics, personal care products		yes
12	use as nutrient in sewage treatment plants	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	ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles ERC 8a: Wide dispersive indoor use of processing aids in open systems ERC 6b: Industrial use of reactive processing aids	As such	PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents PC 37: Water treatment chemicals	SU 6a: Manufacture of wood and wood products SU 6b: Manufacture of pulp, paper and paper products SU 23: Electricity, steam, gas water supply and sewage treatment	yes

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13	used as laboratory agent	PROC 15: Use as laboratory reagent	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 9a: Wide dispersive indoor use of substances in closed systems	As such	PC 21: Laboratory chemicals		yes
14	de-icing agent	PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature	ERC 8e: Wide dispersive outdoor use of reactive substances in open systems	As such	PC 4: Anti-freeze and de-icing products		yes