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?
Us	ses by workers in industri	al settings					
1	Manufacturing of anhydrous ammonia	PROC 1: Use in closed process, no likelihood of exposure PROC 2: Use in closed, continuous process with occasional controlled exposure 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	ERC 1: Manufacture of substances	As such		SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals SU 0: Other:C20.1.5- Manufacture of fertilizers and nitrogen compounds	no
2	Distribution and formulation of anhydrous ammonia	PROC 1: Use in closed process, no likelihood of exposure PROC 2: Use in closed, continuous process with occasional controlled	ERC 2: Formulation of preparations	As such in a mixture		SU 1: Agriculture, forestry and fishing SU 10: Formulation [mixing] of preparations and/or re-packaging	no

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?
		exposure				(excluding alloys)	
		PROC 8a: Transfer of				SU 24: Scientific	
		substance or preparation				research and	
		(charging/discharging)				development	
		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 15: Use as					
		laboratory reagent PROC 3: Use in closed					
		batch process (synthesis or					
		formulation)					
		PROC 4: Use in batch and					
		other process (synthesis)					
		where opportunity for					
		exposure arises					

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?
		PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)					
3	anhydrous ammonia as an intermediate. Use of the substance in the manufacture of nitric acid, alkalis, dyes, pharmaceuticals, cosmetics, vitamins,	PROC 3: Use in closed batch process (synthesis or formulation) PROC 4: Use in batch and	U	As such in a mixture		SU 1: Agriculture, forestry and fishing SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals SU 12: Manufacture of plastics products, including compounding and conversion SU 15: Manufacture of fabricated metal products, except machinery and equipment SU 24: Scientific research and	no

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?
		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 15: Use as laboratory reagent				development SU 5: Manufacture of textiles, leather, fur SU 0: Other:C21 - Manufacture of basic pharmaceutical products and pharmaceutical preparations; C20.1.5 - Manufacture of fertilzier and nitrogen compounds	
4	aids, auxiliary agent. Use in photochemical processes with refrigerant systems, insolution products, inks and toners,	process, no likelihood of exposure PROC 2: Use in closed,	ERC 7: Industrial use of substances in closed systems ERC 4: Industrial use of processing aids in processes and products, not becoming part of	As such in a mixture		SU 0: Other:NACE code C28.2.5: Manufacture of non- domestic cooling and ventilation equipment	no

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?
	paint, removers, processing aids in	PROC 4: Use in batch and other process (synthesis)	articles ERC 6b: Industrial use of				
	chemical industry	where opportunity for	reactive processing aids				
	chemical mousuy	exposure arises	ERC 5: Industrial use				
		PROC 3: Use in closed	resulting in inclusion into				
		batch process (synthesis or	or onto a matrix				
		formulation)					
		PROC 5: Mixing or					
		blending in batch processes					
		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					

π	J 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?
		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 15: Use as laboratory reagent PROC 19: Hand-mixing with intimate contact and only PPE available.					
5	Processing, non.processing aids, auxiliary agent. Use as an extraction agent in NOx/SOx reduction, processing aid in nutrition, neutralizing agent, textile dye, washing and cleaning products, textile treatment	batch process (synthesis or formulation) PROC 15: Use as laboratory reagent PROC 4: Use in batch and other process (synthesis) where opportunity for	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 6b: Industrial use of reactive processing aids	As such in a mixture		SU 4: Manufacture of food products SU 13: Manufacture of other non- metallic mineral products, e.g. plasters, cement SU 23: Electricity, steam, gas water	no

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?
			ERC 7: Industrial use of			supply and sewage	
		1 '	substances in closed			treatment	
		exposure	systems				
		PROC 2: Use in closed,					
		continuous process with occasional controlled					
		exposure					
		PROC 5: Mixing or					
		blending in batch processes					
		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					

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?
		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.					
6	processing aids, auxiliary agent: use in pulp/paper treatment, leather treatment, wood treatment, metal surface treatment, the treatment of rubber/latex, the manufacture of semiconductors/electronics	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)	ERC 7: Industrial use of substances in closed systems 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 6b: Industrial use of reactive processing aids	As such in a mixture		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,	no

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?
		exposure arises				including	
		PROC 5: Mixing or				compounding and	
		blending in batch processes for formulation of				conversion SU 15: Manufacture	
		preparations and articles				of fabricated metal	
		(multistage and/or				products, except	
		significant contact)				machinery and	
		PROC 7: Industrial				equipment	
		spraying PROC 8a:				SU 16: Manufacture	
		Transfer of substance or				of computer,	
		preparation				electronic and	
		(charging/discharging)				optical products,	
		from/to vessels/large				electrical equipment	
		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					

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?
		application or brushing PROC 13: Treatment of articles by dipping and pouring PROC 15: Use as laboratory reagent PROC 19: Hand-mixing with intimate contact and only PPE available.					
7	processing aids, auxinary agent: use in adhesives and sealants, polymer preparations, aircare products, preservatives	exposure PROC 1: Use in closed process, no likelihood of 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	ERC 6b: Industrial use of reactive processing aids 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	As such in a mixture		SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)	no

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?
		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 13: Treatment of					
		articles by dipping and					
		pouring					

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?
		PROC 15: Use as laboratory reagent PROC 19: Hand-mixing with intimate contact and only PPE available.					

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 b	y professional	l workers					
	uses of anhydrous and aqueous ammonia. Use as a laboratory chemical, refrigerant and cooling systems, water treatment	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	1 5	As such in a mixture			no

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?
	thinner or paint remover, photochemical	contact) PROC 8a: Transfer of substance or preparation (charging/discharging)	ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix 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				
9		PROC 1: Use in closed process, no likelihood of exposure	ERC 8a: Wide dispersive indoor use of processing	As such in a mixture			no

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?
	aqueous ammonia. Use as a cleaning product, laser or other surface treatment product, pH regulatory or neutralization agent, process aid for nutrition	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 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	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 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix 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				

IU	Identified use name	Process category	Environmental release category	Substance supplied to that use in form of	v	Sector of end use	Subsequent service life relevant for that use?
		PROC 15: Use as laboratory reagent PROC 18: Greasing at high energy conditions PROC 19: Hand-mixing with intimate contact and only PPE available.					

IU	Identified use name	Chemical product category	Environmental release category	Subsequent service life relevant for that use?						
Use	Uses by consumer									
9	Consumer use of aqueous ammonia. Use in coatings, paints, thinners and removers; use in fillers, putties and plasters, use of washing and cleaning products, use in cosmetic and personal care products	flocculants, precipitants, neutralisation agents PC 23: Leather tanning, dye, finishing, impregnation and care products	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 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC 9a: Wide dispersive indoor use of substances in closed systems ERC 9b: Wide dispersive outdoor use of substances in closed systems	no						

IU	Identified use name	Chemical product category	Environmental release category	Subsequent service life relevant for that use?