

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	Manufacture of Nitric Acid >75%	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 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 In a mixture		SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals	yes

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		PROC 15: Use as laboratory reagent					
2	Use as intermediate >75%	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 15: Use as laboratory reagent PROC 9: Transfer of	ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)	As such In a mixture	PC 19: Intermediate	SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals	yes

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		substance or preparation into small containers (dedicated filling line, including weighing)					
3	Distribution of nitric acid > 75%	<p>PROC 1: Use in closed process, no likelihood of exposure</p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure</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</p>	ERC 2: Formulation of preparations	As such In a mixture			yes

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		weighing) PROC 15: Use as laboratory reagent PROC 3: Use in closed batch process (synthesis or formulation)					
4	Use of nitric acid > 75% reactive agent in inorganic and organic synthesis	PROC 13: Treatment of articles by dipping and pouring 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	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 6b: Industrial use of reactive processing aids	As such In a mixture	PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents	SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)	yes

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		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)					
5	Use of nitric acid > 75% as surface treatment product (e.g. ceramic, semiconductor)	PROC 1: Use in closed process, no likelihood of 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	ERC 7: Industrial use of substances in closed systems ERC 6b: Industrial use of reactive processing aids ERC 2: Formulation of preparations ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles	As such In a mixture	PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents PC 14: Metal surface treatment products, including galvanic and electroplating products PC 15: Non-metal-surface treatment products PC 33: Semiconductors	SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU 16: Manufacture of computer, electronic and optical products, electrical equipment	yes

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		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			PC 35: Washing and cleaning products (including solvent based products)		
6	use of nitric acid < 75% in regeneration of ion exchange resins	PROC 3: Use in closed batch process (synthesis or formulation)	ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers	In a mixture	PC 0: Other:UCN code: A052 50 ion exchanger		yes
7	Formulation of mixtures with nitric acid > 75%	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)	ERC 2: Formulation of preparations	In a mixture	PC 12: Fertilisers PC 35: Washing and cleaning products (including solvent based products)	SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	yes

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 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation 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					
8	use of nitric acid > 75% as laboratory agent	PROC 15: Use as laboratory reagent PROC 3: Use in closed batch process (synthesis or	ERC 1: Manufacture of substances ERC 2: Formulation	As such In a mixture	PC 21: Laboratory chemicals PC 14: Metal surface treatment products,	SU 9: Manufacture of fine chemicals SU 10: Formulation [mixing] of	yes

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		formulation)	of preparations ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC 6b: Industrial use of reactive processing aids		including galvanic and electroplating products PC 15: Non-metal-surface treatment products PC 19: Intermediate PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents	preparations and/or re-packaging (excluding alloys) SU 24: Scientific research and development	
9	use of cleaning products containing nitric acid < 75%	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 7: Industrial spraying PROC 13: Treatment of articles by dipping and pouring PROC 8a: Transfer of	ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles ERC 6b: Industrial use of reactive processing aids	In a mixture	PC 35: Washing and cleaning products (including solvent based products)	SU 4: Manufacture of food products SU 9: Manufacture of fine chemicals	yes



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		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					
10	Manufacturing of nitric acid < 75%	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 8a: Transfer of substance or preparation	ERC 1: Manufacture of substances	In a mixture		SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals	yes

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		(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 15: Use as laboratory reagent					
11	use of nitric acid as intermediate < 75%	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	ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)	In a mixture	PC 19: Intermediate	SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals	yes

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		(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					
12	Formulation of mixtures with nitric acid < 75%	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 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large	ERC 2: Formulation of preparations	In a mixture	PC 12: Fertilisers PC 35: Washing and cleaning products (including solvent based products)	SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	yes

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		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					
13	Distribution of nitric acid < 75%	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	ERC 2: Formulation of preparations	In a mixture			yes

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		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					
14	Use of nitric acid < 75% in metal surface treatment and in plastic treatment	PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 7: Industrial spraying PROC 10: Roller application or brushing PROC 13: Treatment of articles by dipping and pouring PROC 8a: Transfer of substance or preparation (charging/discharging)	ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles ERC 6b: Industrial use of reactive processing aids	In a mixture	PC 7: Base metals and alloys PC 14: Metal surface treatment products, including galvanic and electroplating products PC 15: Non-metal-surface treatment products PC 33: Semiconductors PC 35: Washing and	SU 12: Manufacture of plastics products, including compounding and conversion SU 14: Manufacture of basic metals, including alloys SU 15: Manufacture of fabricated metal	yes

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		<p>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)</p>			cleaning products (including solvent based products)	<p>products, except machinery and equipment            SU 16: Manufacture of computer, electronic and optical products, electrical equipment</p>	
15	Use of nitric acid < 75% as processing aids in industry as reactive agent in inorganic and organic synthesis	<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</p>	<p>ERC 6b: Industrial use of reactive processing aids            ERC 7: Industrial use of substances in closed systems</p>	In a mixture	<p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents            PC 37: Water treatment chemicals</p>	<p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)            SU 9: Manufacture of fine chemicals</p>	yes

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		<p>exposure arises 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>					

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Uses by professional workers							
16	Distribution of nitric acid < 75%	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)	ERC 2: Formulation of preparations	In a mixture			yes
17	Dilution of suspension of liquid or solid fertilizers < 75%	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 ERC 8b: Wide dispersive indoor use of reactive substances in open systems	In a mixture	PC 12: Fertilisers		yes
18	use of cleaning product containing	PROC 11: Non industrial spraying PROC 13: Treatment of articles by dipping and pouring PROC 19: Hand-mixing with	ERC 8a: Wide dispersive indoor use of processing aids in open systems ERC 8b: Wide dispersive	In a mixture	PC 35: Washing and cleaning products (including solvent based products)		yes



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	nitric acid < 75%	intimate contact and only PPE available.	indoor use of reactive substances in open systems ERC 8e: Wide dispersive outdoor use of reactive substances in open systems				
19	use of nitric acid < 75% in metal surface treatment	PROC 10: Roller application or brushing PROC 13: Treatment of articles by dipping and pouring	ERC 8b: Wide dispersive indoor use of reactive substances in open systems ERC 8e: Wide dispersive outdoor use of reactive substances in open systems	In a mixture	PC 14: Metal surface treatment products, including galvanic and electroplating products		yes
20	use of nitric acid < 75% in pH control	PROC 19: Hand-mixing with intimate contact and only PPE available.	ERC 8b: Wide dispersive indoor use of reactive substances in open systems	In a mixture	PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents		yes
21	use of nitric acid < 75% in laboratory chemicals	PROC 15: Use as laboratory reagent	ERC 8b: Wide dispersive indoor use of reactive substances in open systems	In a mixture	PC 21: Laboratory chemicals		yes
22	use of nitric acid < 75% as a surface etchant for concrete	PROC 10: Roller application or brushing	ERC 8e: Wide dispersive outdoor use of reactive substances in open systems	In a mixture	PC 15: Non-metal-surface treatment products		yes