

Map of identified uses

EXPOSURE SCENARIO	SECTOR OF USE (SU)	PREPARATION CATEGORY (PC)	PROCESS CATEGORY (PROC)	ARTICLE CATEGORY (AC)	ENVIRONMENTAL RELEASE CATEGORY (ERC)				
Manufacturing and industrial uses of HNO₃ – concentration >75% Manufacture Formulation Industrial and/or wide dispersive use	SU 3	Industrial uses: Uses of substances as such or in preparations* at industrial sites	PC 14	Metal surface treatment products, including galvanic and electroplating products	PROC 1	Use in closed process, no likelihood of exposure	Not applicable	ERC 1	Manufacture of substances
			PC 15	Non-metal-surface treatment products	PROC 2	Use in closed, continuous process with occasional controlled exposure		ERC 2	Formulation of preparations*
	SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)	PC 19	Intermediate	PROC 3	Use in closed batch process (synthesis or formulation)		ERC 6a	Industrial use resulting in manufacture of another substance (use of intermediates)
					PROC 4	Use in batch and other process (synthesis) where opportunity for exposure arises			
	SU 9	Manufacture of fine chemicals	PC 20	Products such as ph-regulators, flocculants, precipitants, neutralization agents	PROC 5	Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant con-tact)		ERC 6b	Industrial use of reactive processing aids
					PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities			
	SU 10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	PC 21	Laboratory chemicals	PROC 9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)		ERC 7	Industrial use of substances in closed systems
					PROC 13	Treatment of articles by dipping and pouring			
	SU 16	Manufacture of computer, electronic and optical products, electrical equipment	PC 33	Semiconductors	PROC 14	Production of preparations* or articles by tableting, compression, extrusion, pelletisation		ERC 4	Industrial use of processing aids in processes and products, not becoming part of articles
	SU 24	Scientific research and development	PC 35	Washing and cleaning products (including solvent based products)	PROC 15	Use as laboratory reagent			

<p>Manufacturing and industrial uses of HNO₃ – concentration <75%</p> <p>Manufacture Formulation Industrial and/or wide dispersive use</p>	SU 3	Industrial uses: Uses of substances as such or in preparations* at industrial sites	PC 0	Other	PROC 1	Use in closed process, no likelihood of exposure	Not applicable	ERC 1	Manufacture of substances
	SU 4	Manufacture of food products	PC 7	Base metals and alloys	PROC 2	Use in closed, continuous process with occasional controlled exposure		ERC 2	Formulation of preparations*
	SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)	PC 12	Fertilizers	PROC 3	Use in closed batch process (synthesis or formulation)		ERC 4	Industrial use of processing aids in processes and products, not becoming part of articles
	SU 9	Manufacture of fine chemicals	PC 14	Metal surface treatment products, including galvanic and electroplating products	PROC 4	Use in batch and other process (synthesis) where opportunity for exposure arises		ERC 6a	Industrial use resulting in manufacture of another substance (use of intermediates)
	SU 10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	PC 15	Non-metal-surface treatment products	PROC 5	Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant con-tact)		ERC 6b	Industrial use of reactive processing aids
	SU 12	Manufacture of plastics products, including compounding and conversion	PC 19	Intermediate	PROC 7	Industrial spraying			
			PC 20	Products such as ph-regulators, flocculants, precipitants, neutralization agents	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)			
			PC 33	Semiconductors	PROC 10	Roller application or brushing			

	SU 14	Manufacture of basic metals, including alloys		PROC 13	Treatment of articles by dipping and pouring		
	SU 15	Manufacture of fabricated metal products, except machinery and equipment	PC 35	PROC 14	Production of preparations* or articles by tableting, compression, extrusion, pelletisation		ERC 6d
	SU 16	Manufacture of computer, electronic and optical products, electrical equipment	PC 37	PROC 15	Use as laboratory reagent		ERC 7

Professional use of HNO₃ <75% Formulation Industrial and/or wide dispersive use	SU 1	Agriculture, forestry, fishery	PC 12	PROC 5	Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant con-tact)	Not applicable	ERC 8a
			PC 14	PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities		
			PC 15	PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities		
			PC 20	PROC 9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)		ERC 8b
	SU 22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	PC 21	PROC 10	Roller application or brushing		
			PC 21	PROC 11	Non industrial spraying		
			PC 21	PROC 13	Treatment of articles by dipping and pouring		
			PC 21	PROC 15	Use as laboratory reagent		
			PC 35	PROC 19	Hand-mixing with intimate contact and only PPE available		ERC 8e

<p>Consumer use of HNO₃ in preparations <5%</p> <p>Consumer use Service life</p>	<p>SU 21</p> <p>Consumer uses: Private households (= general public = consumers)</p>	<p>PC 3 Air care products</p> <p>PC 8 Biocidal products (e.g. Disinfectants, pest control)</p> <p>PC 12 Fertilizers</p> <p>PC 31 Polishes and wax blends</p> <p>PC 35 Washing and cleaning products (including solvent based products)</p>	<p>Not applicable</p>	<p>Not applicable</p>	<p>ERC 8a Wide dispersive indoor use of processing aids in open systems</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 8e Wide dispersive outdoor use of reactive substances in open systems</p>
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* **Please note:** For the sake of consistency with the descriptor system in IUCRID 5.2, in these lists the term “preparation” has not been replaced by “mixture”.

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