

Uses caprolactam, CAS number 105-60-2

Table 1. Uses by workers in industrial settings

Confidential	IU number	Identified Use (IU) name	Substance supplied to that use	Use descriptors
	1	Manufacture/import of Caprolactam		<p>Process category (PROC):</p> <p>PROC 1: Use in closed process, no likelihood of exposure 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)</p> <p>Environmental release category (ERC):</p> <p>ERC 1: Manufacture of substances</p> <p>Subsequent service life relevant for that use?: no</p>
	2	Distribution of Caprolactam	as such (substance itself)	<p>Process category (PROC):</p> <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)</p> <p>Environmental release category (ERC):</p> <p>ERC 2: Formulation of preparations</p> <p>Subsequent service life relevant for that use?: no</p>
	3	Industrial formulation of solid preparations	as such (substance itself)	<p>Process category (PROC):</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 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>Environmental release category (ERC):</p>

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				<p>ERC 2: Formulation of preparations ERC 3: Formulation in materials</p> <p>Subsequent service life relevant for that use?: no</p>
	4	Formulation of liquid preparations (industrial)	as such (substance itself)	<p>Process category (PROC):</p> <p>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 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)</p> <p>Environmental release category (ERC):</p> <p>ERC 2: Formulation of preparations</p> <p>Subsequent service life relevant for that use?: no</p>
	5	Use as intermediate	as such (substance itself)	<p>Process category (PROC):</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)</p> <p>Market sector by type of chemical product:</p> <p>PC 19: Intermediate</p> <p>Environmental release category (ERC):</p> <p>ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p>

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				<p>Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals</p> <p>Subsequent service life relevant for that use?: no</p>
	6	Use as monomer for polyamide, polymers, thermoplastics	as such (substance itself)	<p>Process category (PROC): 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 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>Market sector by type of chemical product: PC 32: Polymer preparations and compounds</p> <p>Environmental release category (ERC): ERC 6c: Industrial use of monomers for manufacture of thermoplastics</p> <p>Sector of end use (SU): SU 12: Manufacture of plastics products, including compounding and conversion</p>
	7	Use as monomer for resins	as such (substance itself)	<p>Process category (PROC): 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 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>Environmental release category (ERC): ERC 6c: Industrial use of monomers for manufacture of thermoplastics</p> <p>Subsequent service life relevant for that use?: no</p>
	8	Use as monomer for thermo hardened resins	as such (substance itself)	<p>Process category (PROC): PROC 1: Use in closed process, no likelihood of exposure PROC 3: Use in closed batch process (synthesis or formulation) PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large</p>

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				<p>containers at non-dedicated facilities PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>Environmental release category (ERC): ERC 6c: Industrial use of monomers for manufacture of thermoplastics</p> <p>Subsequent service life relevant for that use?: no</p>
	9	Use as plasticizer for polyamide	as such (substance itself)	<p>Process category (PROC): 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 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>Environmental release category (ERC): ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p>Subsequent service life relevant for that use?: no</p>
	10	Use in Leather tanning, finishing, impregnation, coatings and paints	as such (substance itself)	<p>Process category (PROC): PROC 10: Roller application or brushing PROC 13: Treatment of articles by dipping and pouring</p> <p>Environmental release category (ERC): ERC 6b: Industrial use of reactive processing aids</p> <p>Subsequent service life relevant for that use?: no</p>

Table 2. Uses by professional workers

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	11	Use as laboratory chemical	as such (substance itself)	<p>Process category (PROC): PROC 15: Use as laboratory reagent</p>

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				<p>Market sector by type of chemical product: PC 21: Laboratory chemicals</p> <p>Environmental release category (ERC): ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</p> <p>Subsequent service life relevant for that use?: no</p>
	4	Formulation of liquid preparations (professional)	as such (substance itself)	<p>Process category (PROC):</p> <p>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 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)</p> <p>Environmental release category (ERC): ERC 2: Formulation of preparations</p> <p>Subsequent service life relevant for that use?: no</p>

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Table 3. Uses by consumers

Confidential	IU number	Identified Use (IU) name	Use descriptors
	12	Use in coatings/painst (consumer)	<p>Chemical product category (PC): PC 18: Ink and toners</p> <p>Environmental release category (ERC): 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</p>