

2.1. Manufacture

Table 1. Manufacture

Identifiers	Use descriptors	Other information
M-1: Manufacture of the substance	<p>Environmental release category (ERC):</p> <p>ERC 1: Manufacture of substances</p> <p>Process category (PROC):</p> <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 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</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>	Number of sites: 1-10

2.2. Identified uses

Table 2. Formulation

Identifiers	Use descriptors	Other information
F-2: Formulation and synthesis	<p>Environmental release category (ERC):</p> <p>ERC 2: Formulation of preparations</p> <p>ERC 3: Formulation in materials</p> <p>Process category (PROC):</p> <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 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and 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 6: Calendaring operations</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>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including</p>	<p>Substance supplied to that use:</p> <p>As such</p> <p>In a mixture</p> <p>PC 19 has been removed in the latest version of the Use Descriptor guidance and therefore will not be available for selection in IUCLID 6</p>

Identifiers	Use descriptors	Other information
	<p>weighing) PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC 10: Roller application or brushing PROC 13: Treatment of articles by dipping and pouring PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Product Category formulated:</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents PC 19: Intermediate PC 21: Laboratory chemicals PC 27: Plant protection products PC 8: Biocidal products (e.g. disinfectants, pest control)</p> <p>Technical function of the substance during formulation:</p> <p>Intermediates Laboratory chemicals Plant protection active substance pH-regulating agents Food/feedstuff additives</p>	

Table 3. Uses at industrial sites

Identifiers	Use descriptors	Other information
IW-3: Industrial end use	<p>Environmental release category (ERC):</p> <p>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 another substance (use of intermediates) ERC 6b: Industrial use of reactive processing aids ERC 7: Industrial use of substances in closed systems</p> <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 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 6: Calendering operations PROC 7: Industrial spraying</p>	<p>Substance supplied to that use:</p> <p>As such In a mixture</p> <p>Subsequent service life relevant for that use: yes</p>

Identifiers	Use descriptors	Other information
	<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 13: Treatment of articles by dipping and pouring</p> <p>PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>PROC 17: Lubrication at high energy conditions and in partly open process</p> <p>PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting</p> <p>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Product Category used:</p> <p>PC 2: Adsorbents</p> <p>PC 9a: Coatings and paints, thinners, paint removes</p> <p>PC 9b: Fillers, putties, plasters, modelling clay</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>PC 24: Lubricants, greases, release products</p> <p>PC 25: Metal working fluids</p> <p>PC 32: Polymer preparations and compounds</p> <p>PC 18: Ink and toners</p> <p>PC 31: Polishes and wax blends</p> <p>PC 37: Water treatment chemicals</p> <p>PC 35: Washing and cleaning products (including solvent based products)</p> <p>PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p>PC 0: Other: UCN-Codes: H 15500, R 30200</p> <p>Sector of end use:</p> <p>SU 6b: Manufacture of pulp, paper and paper products</p> <p>SU 16: Manufacture of computer, electronic and optical products, electrical equipment</p> <p>SU 12: Manufacture of plastics products, including compounding and conversion</p> <p>SU 19: Building and construction work</p> <p>SU 15: Manufacture of fabricated metal products, except machinery and equipment</p> <p>Technical function of the substance during formulation:</p>	

Identifiers	Use descriptors	Other information
	<p>pH-regulating agents Intermediates Food/feedstuff additives Fertilisers</p>	
IW-4: Industrial end use as fertilizer	<p>Environmental release category (ERC): ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles ERC 7: Industrial use of substances in closed systems ERC 6b: Industrial use of reactive processing aids</p> <p>Process category (PROC): PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 7: Industrial spraying 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 13: Treatment of articles by dipping and pouring PROC 26: Handling of solid inorganic substances at ambient temperature 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</p> <p>Product Category used: PC 7: Base metals and alloys PC 12: Fertilisers PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>Sector of end use: SU 1: Agriculture, forestry and fishing</p> <p>Technical function of the substance during formulation: Fertilisers</p>	Subsequent service life relevant for that use: yes

Table 4. Uses by professional workers

Identifiers	Use descriptors	Other information
PW-5: Formulation and synthesis in	Environmental release category (ERC):	Substance supplied to that use:

Identifiers	Use descriptors	Other information
professional settings	<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 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems</p> <p>ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p>Process category (PROC):</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 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>PROC 15: Use as laboratory reagent</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 11: Non industrial spraying</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <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 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 6: Calendering operations</p> <p>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>Product Category used:</p> <p>PC 19: Intermediate</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>PC 21: Laboratory chemicals</p> <p>PC 8: Biocidal products (e.g. disinfectants, pest control)</p> <p>PC 27: Plant protection products</p>	<p>As such</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>PC 19 has been removed in the latest version of the Use Descriptor guidance and therefore will not be available for selection in IUCLID 6</p> <p>SU 10 has been removed in the latest version of the Use Descriptor guidance and therefore will not be available for selection in IUCLID 6</p>

Identifiers	Use descriptors	Other information
	<p>Sector of end use:</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals SU 24: Scientific research and development SU 4: Manufacture of food products</p> <p>Technical function of the substance during formulation:</p> <p>Intermediates Laboratory chemicals Fertilisers Food/feedstuff additives pH-regulating agents</p>	
<p>PW-6: Professional end use different sectors</p>	<p>Environmental release category (ERC):</p> <p>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 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix 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</p> <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 6: Calendering operations 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 11: Non industrial spraying PROC 13: Treatment of articles by dipping and pouring PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p>	<p>Substance supplied to that use:</p> <p>As such In a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>SU 10 has been removed in the latest version of the Use Descriptor guidance and therefore will not be available for selection in IUCLID 6</p>

Identifiers	Use descriptors	Other information
	<p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Product Category used:</p> <p>PC 2: Adsorbents</p> <p>PC 9a: Coatings and paints, thinners, paint removes</p> <p>PC 9b: Fillers, putties, plasters, modelling clay</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>PC 24: Lubricants, greases, release products</p> <p>PC 25: Metal working fluids</p> <p>PC 32: Polymer preparations and compounds</p> <p>PC 18: Ink and toners</p> <p>PC 15: Non-metal-surface treatment products</p> <p>PC 0: Other: UCN-Codes H15500, R 30200</p> <p>Sector of end use:</p> <p>SU 6b: Manufacture of pulp, paper and paper products</p> <p>SU 16: Manufacture of computer, electronic and optical products, electrical equipment</p> <p>SU 12: Manufacture of plastics products, including compounding and conversion</p> <p>SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement</p> <p>SU 19: Building and construction work</p> <p>SU 4: Manufacture of food products</p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> <p>SU 9: Manufacture of fine chemicals</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p>SU 20: Health services</p> <p>Technical function of the substance during formulation:</p> <p>Fertilisers</p> <p>Food/feedstuff additives</p> <p>Intermediates</p> <p>Laboratory chemicals</p> <p>pH-regulating agents</p>	
PW-7: Cosmetics, pharmaceuticals and food additives	<p>Environmental release category (ERC):</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>Process category (PROC):</p>	<p>Substance supplied to that use:</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Identifiers	Use descriptors	Other information
	<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 11: Non industrial spraying</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Product Category used:</p> <p>PC 8: Biocidal products (e.g. disinfectants, pest control)</p> <p>PC 39: Cosmetics, personal care products</p> <p>PC 35: Washing and cleaning products (including solvent based products)</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>PC 29: Pharmaceuticals</p> <p>PC 38: Welding and soldering products (with flux coatings or flux cores.), flux products</p> <p>Sector of end use:</p> <p>SU 4: Manufacture of food products</p> <p>SU 20: Health services</p> <p>Technical function of the substance during formulation:</p> <p>Pharmaceutical substance</p> <p>Food/feedstuff additives</p> <p>Laboratory chemicals</p> <p>Intermediates</p>	
PW-8: Professional end use as fertilizer	<p>Environmental release category (ERC):</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 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems</p> <p>Process category (PROC):</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 13: Treatment of articles by dipping and pouring</p> <p>PROC 19: Hand-mixing with intimate contact and</p>	<p>Substance supplied to that use:</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Identifiers	Use descriptors	Other information
	<p>only PPE available. PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Product Category used: PC 12: Fertilisers</p> <p>Sector of end use: SU 1: Agriculture, forestry and fishing</p> <p>Technical function of the substance during formulation: Fertilisers Laboratory chemicals</p>	

Table 5. Consumer uses

Identifiers	Use descriptors	Other information
C-9: End use of products and materials containing the substance	<p>Product Category used: PC 9a: Coatings and paints, thinners, paint removes PC 9b: Fillers, putties, plasters, modelling clay PC 18: Ink and toners</p> <p>Technical function of the substance during formulation: Fertilisers Food/feedstuff additives Pharmaceutical substance Laboratory chemicals</p>	<p>Substance supplied to that use: In a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>No ERCS selected</p>