

Table 1. Manufacture

Identifiers	Use descriptors	Other information
M-1: Manufacturing of the substance (continuous and batch synthesis), including handling, storage and q control	<p><b>Environmental release category (ERC):</b></p> <p>ERC 1: Manufacture of substances</p> <p><b>Process category (PROC):</b></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> <p>PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>PROC 15: Use as laboratory reagent</p>	

Table 2. Formulation

Identifiers	Use descriptors	Other information
F-1: Formulation of chemicals, cosmetics and fertilizers	<p><b>Environmental release category (ERC):</b></p> <p>ERC 2: Formulation of preparations</p> <p><b>Process category (PROC):</b></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 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 14: Production of preparations or articles by</p>	<p>Substance supplied to that use:</p> <p>As such</p> <p>In a mixture</p>

Identifiers	Use descriptors	Other information
	tableting, compression, extrusion, pelletisation PROC 15: Use as laboratory reagent PROC 19: Hand-mixing with intimate contact and only PPE available.	

Table 3. Uses at industrial sites

Identifiers	Use descriptors	Other information
IW-1: Use at industrial site as intermediate for resins coatings, inks and polymers, pharmaceuticals, melamine, as raw material in the cement, steel and glass industry	<p><b>Environmental release category (ERC):</b></p> <p>ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p><b>Process category (PROC):</b></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 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 15: Use as laboratory reagent</p> <p><b>Sector of end use:</b></p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)            SU 9: Manufacture of fine chemicals</p> <p><b>Technical function of the substance during formulation:</b></p> <p>Intermediates</p>	<p>Substance supplied to that use:</p> <p>As such            In a mixture</p> <p>Subsequent service life relevant for that use: no</p>
IW-2: Use at industrial site as cleaning and maintenance products	<p><b>Environmental release category (ERC):</b></p> <p>ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles</p> <p><b>Process category (PROC):</b></p> <p>PROC 1: Use in closed process, no likelihood of exposure            PROC 2: Use in closed, continuous process with occasional controlled exposure</p>	<p>Substance supplied to that use:</p> <p>As such            In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Identifiers	Use descriptors	Other information
	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 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 19: Hand-mixing with intimate contact and only PPE available.	
IW-3: Waste gas treatment - Nox reduction	<b>Environmental release category (ERC):</b> ERC 6b: Industrial use of reactive processing aids  <b>Process category (PROC):</b> 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  <b>Sector of end use:</b> SU 23: Electricity, steam, gas water supply and sewage treatment SU8: Manufacture of bulk, large scale chemicals (including petroleum products)  <b>Technical function of the substance during formulation:</b> Reducing agents	Substance supplied to that use: In a mixture  Subsequent service life relevant for that use: no
IW-4: Use as nutrient in sewage treatment plants, as process nutrient for biofuel and fermentation	<b>Environmental release category (ERC):</b> ERC 6b: Industrial use of reactive processing aids  <b>Process category (PROC):</b> 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)	Substance supplied to that use: As such In a mixture  Subsequent service life relevant for that use: no

Identifiers	Use descriptors	Other information
	<p>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 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 15: Use as laboratory reagent</p> <p><b>Sector of end use:</b>            SU 23: Electricity, steam, gas water supply and sewage treatment            SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)            SU 9: Manufacture of fine chemicals</p> <p><b>Technical function of the substance during formulation:</b>            Food/feedstuff additives</p>	
<p>IW-5: Use at industrial site as stabilisation in mining and quarries.</p>	<p><b>Environmental release category (ERC):</b>            ERC 6b: Industrial use of reactive processing aids</p> <p><b>Process category (PROC):</b>            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 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</p> <p><b>Sector of end use:</b>            SU 2a: Mining (without offshore industries)</p> <p><b>Technical function of the substance during</b></p>	<p>Substance supplied to that use:            As such            In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Identifiers	Use descriptors	Other information
	<p><b>formulation:</b></p> <p>Processing aid, not otherwise listed</p>	
IW-6: Industrial use as part of specialist chemicals /other products	<p><b>Environmental release category (ERC):</b></p> <p>ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles</p> <p><b>Process category (PROC):</b></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 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</p> <p><b>Sector of end use:</b></p> <p>SU 12: Manufacture of plastics products, including compounding and conversion            SU 15: Manufacture of fabricated metal products, except machinery and equipment            SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment            SU 24: Scientific research and development            SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)            SU 9: Manufacture of fine chemicals</p> <p><b>Technical function of the substance during formulation:</b></p> <p>Processing aid, not otherwise listed</p>	<p>Substance supplied to that use:</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Table 4. Uses by professional workers

Identifiers	Use descriptors	Other information
PW-1: Use by professional worker as cleaning and	<p><b>Environmental release category (ERC):</b></p> <p>ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p>	<p>Substance supplied to that use:</p> <p>As such            In a mixture</p>

Identifiers	Use descriptors	Other information
<p>maintenance products</p>	<p>ERC 8a: Wide dispersive indoor use of processing aids in open systems</p> <p><b>Process category (PROC):</b></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 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 10: Roller application or brushing</p> <p>PROC 11: Non industrial spraying</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p>	<p>Subsequent service life relevant for that use: no</p>
<p>PW-2: Use by professional worker as intermediate for resins coatings, inks and polymers</p>	<p><b>Environmental release category (ERC):</b></p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems</p> <p>ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p><b>Process category (PROC):</b></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 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 15: Use as laboratory reagent</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p>	<p>Substance supplied to that use:</p> <p>As such</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Identifiers	Use descriptors	Other information
	<p><b>Technical function of the substance during formulation:</b></p> <p>Intermediates</p>	
PW-3: De-icing of roads and runways surfaces	<p><b>Environmental release category (ERC):</b></p> <p>ERC 8d: Wide dispersive outdoor use of processing aids in open systems</p> <p><b>Process category (PROC):</b></p> <p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC 11: Non industrial spraying</p> <p><b>Sector of end use:</b></p> <p>SU 19: Building and construction work</p> <p><b>Technical function of the substance during formulation:</b></p> <p>Anti-freezing agents</p>	<p>Substance supplied to that use:</p> <p>As such</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: no</p>
PW-4: Use by professional worker as fertilizer	<p><b>Environmental release category (ERC):</b></p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems</p> <p>ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p><b>Process category (PROC):</b></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 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 11: Non industrial spraying</p> <p>PROC 15: Use as laboratory reagent</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p><b>Sector of end use:</b></p> <p>SU 1: Agriculture, forestry and fishing</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p><b>Technical function of the substance during formulation:</b></p>	<p>Substance supplied to that use:</p> <p>As such</p> <p>In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Identifiers	Use descriptors	Other information
	Fertilisers	
PW-5: Use as reactive agent/processing aid and for general chemical applications, water treatment, as process nutrient for biofuel and fermentation	<p><b>Environmental release category (ERC):</b></p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p><b>Process category (PROC):</b></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 11: Non industrial spraying  PROC 15: Use as laboratory reagent  PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p><b>Sector of end use:</b></p> <p>SU 1: Agriculture, forestry and fishing  SU 23: Electricity, steam, gas water supply and sewage treatment</p> <p><b>Technical function of the substance during formulation:</b></p> <p>Food/feedstuff additives</p>	<p>Substance supplied to that use:</p> <p>As such  In a mixture</p> <p>Subsequent service life relevant for that use: no</p>

Table 5. Consumer uses

Identifiers	Use descriptors	Other information
C-1: Consumer Use as fertilizer and in cosmetics	<p><b>Environmental release category (ERC):</b></p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p><b>Product Category used:</b></p> <p>PC 12: Fertilisers  PC 39: Cosmetics, personal care products</p> <p><b>Technical function of the substance during</b></p>	<p>Substance supplied to that use:</p> <p>As such  In a mixture</p> <p>Subsequent service life relevant for that use: no</p>



## Urea uses

Status: 23.06.2015

Identifiers	Use descriptors	Other information
	<b>formulation:</b> Fertilisers Pharmaceutical substance	
C-2: Consumer Use in cold packs	<b>Environmental release category (ERC):</b> <b>ERC 9a: Wide dispersive indoor use of substances in closed systems</b> <b>Product Category used:</b> <b>PC 16: Heat transfer fluids</b> <b>Technical function of the substance during formulation:</b> <b>Heat transfer agents</b>	Substance supplied to that use: As such In a mixture Subsequent service life relevant for that use: no