

2.1. Manufacture

Table 2.2. Manufacture

	Manufacture
M-1	<p>Manufacture of the substance</p> <p>Manufactured composition (see section 1.x):</p> <p><u>Further description of manufacturing process:</u></p> <p>Industrial manufacture - continuous synthesis. Industrial manufacture - batch synthesis</p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - Manufacture of the substance (ERC1) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC 1) - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2) - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC 3) - Chemical production where opportunity for exposure arises (PROC 4) - Mixing or blending in batch processes (PROC 5) - Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b) - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9) - Use as a laboratory reagent (PROC 15) <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p><i>Related assessment:</i></p>

2.2. Identified uses

Table 2.3. Formulation

	Formulation
F-2	<p>Formulation of mixtures</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p>

	<p>Industrial distribution. Industrial USE to formulate fertiliser product mixtures.</p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - Formulation into mixture (ERC2) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC 1) - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2) - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC 3) - Chemical production where opportunity for exposure arises (PROC 4) - Mixing or blending in batch processes (PROC 5) - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a) - Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b) - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9) - Tabletting, compression, extrusion, pelletisation, granulation (PROC 14) - Use as laboratory reagent (PROC 15) <p><u>Product Category formulated:</u></p> <p>PC 12: Fertilisers</p> <p><u>Technical function of the substance:</u></p> <p>no technical function</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p><i>Related assessment:</i></p>
<p>F-3</p>	<p>Formulation into solid matrix</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Formulation by incorporating the product onto or into a matrix</p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - Formulation into solid matrix (ERC3) <p>Contributing activity/technique for the workers :</p>

	<ul style="list-style-type: none"> - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC 1) - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2) - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC 3) - Chemical production where opportunity for exposure arises (PROC 4) - Mixing or blending in batch processes (PROC 5) - Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b) - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9) - Treatment of articles by dipping and pouring (PROC 13) <p><u>Product Category formulated:</u></p> <p>PC 12: Fertilisers</p> <p><u>Technical function of the substance:</u></p> <p>no technical function</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p><i>Related assessment:</i></p>
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Table 2.4. Uses at industrial sites

	Uses at industrial sites
IV-4	<p>Industrial use as an intermediate in fertiliser production</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - Use of intermediate (ERC6a) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC 1) - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2) - Manufacture or formulation in the chemical industry in closed batch processes with

	<p>occasional controlled exposure or processes with equivalent containment condition (PROC 3)</p> <ul style="list-style-type: none"> - Chemical production where opportunity for exposure arises (PROC 4) - Mixing or blending in batch processes (PROC 5) - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a) - Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b) - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9) <p>Product category used: PC 12, PC 20, PC 21</p> <p>Sector of end use: SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals</p> <p>Technical function of the substance: intermediate (precursor)</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p>Subsequent service life relevant for that use: no</p> <p>Link to the subsequent service life:</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
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Table 2.5. Uses by professional workers

	Uses by professional workers
PW-5	<p>Professional use of fertilisers</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Mixing and loading of liquid or solid fertilisers into the equipment and applying with different techniques (spreading, spraying, fertigation etc) for the crop by farmers, growers and contractors</p> <p>Professional formulation of fertiliser products. Professional USE as fertiliser at Farm - loading and spreading. Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field (e.g. Fertigation). Professional USE as fertiliser - maintenance of equipment.</p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b) - Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

	<p>(ERC8e)</p> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - Mixing or blending in batch processes (PROC 5) - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a) - Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b) - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9) - Non industrial spraying (PROC 11) - Use as laboratory reagent (PROC 15) <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: fertilisers (soil amendments)</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Subsequent service life relevant for that use: no</p> <p>Link to the subsequent service life:</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
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Table 2.6. Consumer uses

	Consumer uses
C-6	<p>Consumer use as a fertiliser</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Mixing and application of solid or liquid fertilisers at home for indoor or outdoor plants</p> <p>Contributing activity/technique for the environment:</p> <ul style="list-style-type: none"> - Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b) - Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) (ERC8e) <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"> - Fertilisers - Product category (PC): PC 12 <p>Technical function of the substance: fertilisers (soil amendments)</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant</p> <p>Tonnage of substance for that use: tonnes/year</p>

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	<p>Subsequent service life relevant for that use: no</p> <p>Link to the subsequent service life:</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
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