

## 2.1. Manufacture

Table 2.2. Manufacture

	Manufacture
M-1	<p><b>Manufacture of tricalcium bis(orthophosphate)</b></p> <p>Manufactured composition (see section 1.x):</p> <p><u>Further description of manufacturing process:</u></p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> <li>- (ERC1)</li> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- (PROC 1)</li> <li>- (PROC 2)</li> <li>- (PROC 3)</li> <li>- (PROC 4)</li> <li>- (PROC 8a)</li> <li>- (PROC 8b)</li> <li>- (PROC 9)</li> </ul> <p><i>Related assessment:</i></p>

## 2.2. Identified uses

Table 2.3. Formulation

	Formulation
F-2	<p><b>Use of tricalcium bis(orthophosphate)for formulation (e.g. mixing, blending) of mixtures</b></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"> <li>- (ERC2)</li> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- (PROC 1)</li> <li>- (PROC 2)</li> <li>- (PROC 3)</li> <li>- (PROC 4)</li> <li>- (PROC 5)</li> <li>- (PROC 8a)</li> <li>- (PROC 8b)</li> <li>- (PROC 9)</li> </ul>

	<ul style="list-style-type: none"><li>- (PROC 14)</li><li>- (PROC 15)</li><li>- (PROC 26)</li><li>- (PROC 28)</li></ul> <p><b><u>Product Category formulated:</u></b></p> <p>PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 12: Fertilisers ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 29: Pharmaceuticals ; PC 32: Polymer preparations and compounds ; PC 39: Cosmetics, personal care products</p> <p><b><u>Technical function of the substance:</u></b></p> <p>processing aid</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
F-3	<p><b>Use of tricalcium bis(orthophosphate)for formulation (e.g. mixing, blending) of materials</b></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"><li>- (ERC3)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 1)</li><li>- (PROC 2)</li><li>- (PROC 3)</li><li>- (PROC 4)</li><li>- (PROC 5)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 13)</li><li>- (PROC 14)</li><li>- (PROC 26)</li></ul> <p><b><u>Product Category formulated:</u></b></p> <p>PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 29: Pharmaceuticals ; PC 32: Polymer preparations and compounds ; PC 39: Cosmetics, personal care products</p> <p><b><u>Technical function of the substance:</u></b></p> <p>processing aid</p>

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	Substance supplied to that use: as such ; in a mixture <i>Related assessment: use assessed in a joint CSR</i>
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**Table 2.4. Uses at industrial sites**

	<b>Uses at industrial sites</b>
IW-4	<p><b>Use of tricalcium bis(orthophosphate) as intermediate; Includes; use of TCP as raw material for the synthesis of fertilisers</b></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"><li>- (ERC6a)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 1)</li><li>- (PROC 2)</li><li>- (PROC 3)</li><li>- (PROC 4)</li><li>- (PROC 5)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 19)</li><li>- (PROC 26)</li><li>- (PROC 28)</li></ul> <p>Product category used: PC 12, PC 29</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>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>
IW-5	<p><b>Use as additive/pigment/auxiliary in plastics/resins/paints</b></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"><li>- (ERC5)</li></ul> <p>Contributing activity/technique for the workers :</p>

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	<ul style="list-style-type: none"><li>- (PROC 5)</li><li>- (PROC 7)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 10)</li><li>- (PROC 13)</li><li>- (PROC 19)</li><li>- (PROC 26)</li></ul> <p>Product category used: PC 9a, PC 20, PC 32</p> <p>Sector of end use: SU 12: Manufacture of plastics products, including compounding and conversion,</p> <p>Technical function of the substance: processing aid</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Service life of plastic articles</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
IW-6	<p><b>Use as - raw material for ceramic materials (e.g. bone china), - coating systems on ceramic materials (glazes, coatings, oxidation protection etc.)</b></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"><li>- (ERC5)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 5)</li><li>- (PROC 6)</li><li>- (PROC 7)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 13)</li><li>- (PROC 14)</li><li>- (PROC 19)</li><li>- (PROC 22)</li><li>- (PROC 23)</li><li>- (PROC 26)</li></ul> <p>Product category used: PC 9a, PC 9b, PC 20</p> <p>Sector of end use: SU 13: Manufacture of other non-metallic mineral products, e.g.</p>

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	<p>plasters, cement ; SU 19: Building and construction work</p> <p>Technical function of the substance: processing aid</p> <p>Substance supplied to that use: as such ; in a mixture</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Service life of ceramic articles</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
IW-7	<p><b>Use as/for food/feed additive - cosmetics - pharmaceuticals</b></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"><li>- (ERC4)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 1)</li><li>- (PROC 2)</li><li>- (PROC 3)</li><li>- (PROC 4)</li><li>- (PROC 5)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 14)</li><li>- (PROC 15)</li><li>- (PROC 19)</li><li>- (PROC 26)</li></ul> <p>Product category used: PC 29, PC 39</p> <p>Sector of end use: SU 4: Manufacture of food products ; SU 20: Health services</p> <p>Technical function of the substance: processing aid</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>

**Table 2.5. Uses by professional workers**

	<b>Uses by professional workers</b>
PW-8	<p><b>Use as a laboratory chemical</b></p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p>

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	<p>Contributing activity/technique for the environment : - (ERC8a)</p> <p>Contributing activity/technique for the workers : - (PROC 15)</p> <p>Product Category used: PC 21: Laboratory chemicals Sector of end use: SU 24: Scientific research and development Technical function of the substance: intermediate (precursor) Subsequent service life relevant for that use: no Link to the subsequent service life: <i>Related assessment: use assessed in a joint CSR</i></p>
PW-9	<p><b>Use as additive/pigment/auxiliary in plastics/resins/paints</b></p> <p>Related composition (see section 1.x): <u>Further description of the use:</u></p> <p>Contributing activity/technique for the environment : - (ERC8c) - (ERC8f)</p> <p>Contributing activity/technique for the workers : - (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - (PROC 10) - (PROC 11) - (PROC 13) - (PROC 19) - (PROC 26)</p> <p>Product Category used: PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 32: Polymer preparations and compounds Sector of end use: SU 12: Manufacture of plastics products, including compounding and conversion Technical function of the substance: processing aid Subsequent service life relevant for that use: yes Link to the subsequent service life: Service life of plastic articles <i>Related assessment: use assessed in a joint CSR</i></p>
PW-10	<p><b>Use as - raw material for ceramic materials (e.g. bone china), - coating systems on</b></p>

	<p><b>ceramic materials (glazes, coatings, oxidation protection etc.)</b></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"><li>- (ERC8c)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 4)</li><li>- (PROC 5)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 11)</li><li>- (PROC 13)</li><li>- (PROC 14)</li><li>- (PROC 19)</li><li>- (PROC 22)</li><li>- (PROC 23)</li><li>- (PROC 26)</li></ul> <p>Product Category used: PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>Sector of end use: SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement ; SU 19: Building and construction work</p> <p>Technical function of the substance: processing aid</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Service life of ceramic articles</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
PW-11	<p><b>Use as/for food/feed additive, cosmetics, pharmaceuticals</b></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"><li>- (ERC8a)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 3)</li><li>- (PROC 4)</li><li>- (PROC 5)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li></ul>

	<ul style="list-style-type: none"><li>- (PROC 9)</li><li>- (PROC 10)</li><li>- (PROC 11)</li><li>- (PROC 13)</li><li>- (PROC 14)</li><li>- (PROC 15)</li><li>- (PROC 19)</li><li>- (PROC 26)</li></ul> <p>Product Category used: PC 29: Pharmaceuticals ; PC 39: Cosmetics, personal care products</p> <p>Sector of end use: SU 4: Manufacture of food products ; SU 20: Health services</p> <p>Technical function of the substance: processing aid</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>
PW-12	<p><b>Use as a fertiliser (indoor and outdoor); 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</b></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"><li>- (ERC8b)</li><li>- (ERC8e)</li></ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"><li>- (PROC 5)</li><li>- (PROC 8a)</li><li>- (PROC 8b)</li><li>- (PROC 9)</li><li>- (PROC 11)</li><li>- (PROC 15)</li><li>- (PROC 19)</li><li>- (PROC 26)</li></ul> <p>Product Category used: PC 12: Fertilisers ; PC 0: Other:TARIC 3101</p> <p>Sector of end use: SU 1: Agriculture, forestry and fishing</p> <p>Technical function of the substance: fertilisers (soil amendments)</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**

	<b>Consumer uses</b>
C-13	<p><b>Consumer use as cosmetics</b></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> <p>- (ERC8a)</p> <p>Contributing activity/technique for consumers:</p> <p>-- <b>Product category (PC): PC 39</b></p> <p>Technical function of the substance: processing aid</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>
C-14	<p><b>Consumer use as fertiliser (indoor and outdoor) ; mixing and application of solid or liquid fertilisers at home for indoor or outdoor plants</b></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> <p>- (ERC8b)</p> <p>- (ERC8e)</p> <p>Contributing activity/technique for consumers:</p> <p>-- <b>Product category (PC): PC 12</b></p> <p>-- <b>Product category (PC): PC 0</b></p> <p>Technical function of the substance: fertilisers (soil amendments)</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>

**Table 2.7. Article service life**

	<b>Article service life</b>
SL-1	<p><b>Service life of plastic articles</b></p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Article used by: workers ; consumers</p> <p>Substance intended to be released from article:</p>

	<p><b>Article category related to subsequent service life (AC):</b> AC 13: Plastic articles</p> <p>Contributing activity/technique for the environment:</p> <ul style="list-style-type: none"><li>- (ERC10a)</li><li>- (ERC11a)</li></ul> <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"><li>- - <b>Article Category (AC): AC 13</b></li></ul> <p>Contributing activity/technique for the workers:</p> <ul style="list-style-type: none"><li>- (PROC 21)</li></ul> <p>Technical function of the substance:</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
SL-2	<p><b>Service life of ceramic articles</b></p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Article used by: workers ; consumers</p> <p>Substance intended to be released from article:</p> <p><b>Article category related to subsequent service life (AC):</b> AC 4: Stone, plaster, cement, glass and ceramic articles</p> <p>Contributing activity/technique for the environment:</p> <ul style="list-style-type: none"><li>- (ERC10a)</li><li>- (ERC11a)</li></ul> <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"><li>- - <b>Article Category (AC): AC 4</b></li></ul> <p>Contributing activity/technique for the workers:</p> <ul style="list-style-type: none"><li>- (PROC 21)</li></ul> <p>Technical function of the substance:</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>

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