

## 2.1. Manufacture

Table 2.2. Manufacture

	Manufacture
M-1	<p><b>Manufacture of trimagnesium 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>Tonnage of substance for that use: tonnes/year</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>

## 2.2. Identified uses

Table 2.3. Formulation

	Formulation
F-2	<p><b>Use of trimagnesium 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>Use of the substance for formulation (e.g. mixing, blending) of preparations.</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> </ul>

	<ul style="list-style-type: none"> <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> <li>- (PROC28)</li> </ul> <p><b><u>Product Category formulated:</u></b></p> <p>PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 12: Fertilisers ; PC 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals ; 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>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: use assessed in a joint CSR</i></p>
<p>F-3</p>	<p><b>Use of trimagnesium 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>Use of the substance for formulation (e.g. mixing, blending) of materials.</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> </ul>

	<p>- (PROC 19) - (PROC 26)</p> <p><b><u>Product Category formulated:</u></b></p> <p>PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 12: Fertilisers ; PC 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals ; 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>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: use assessed in a joint CSR</i></p>
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**Table 2.4. Uses at industrial sites**

	<b>Uses at industrial sites</b>
IW-4	<p><b>Use as an intermediate. Including use in fertiliser production</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>- (ERC6a)</p> <p>Contributing activity/technique for the workers :</p> <p>- (PROC 1) - (PROC 2) - (PROC 3) - (PROC 4) - (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - (PROC 19) - (PROC 26)</p> <p>Product category used: PC 12, PC 21</p> <p>Sector of end use: SU 1: Agriculture, forestry and fishing</p> <p>Technical function of the substance: fertilisers (soil amendments)</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: in a mixture</p>

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	<p>Subsequent service life relevant for that use: no</p> <p>Link to the subsequent service life:</p> <p>Remarks:</p> <p>Formulation also occurs during the same life cycle, please refer to identified use F-1.</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
IW-5	<p><b>Use as an additive/pigment/auxiliary in plastics/resins/paints, coatings and inks</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 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 22)</li><li>- (PROC 23)</li><li>- (PROC 26)</li></ul> <p>Product category used: PC 9a, PC 9b, PC 18, 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: filler ; pigment ; processing aid</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: yes</p> <p>Link to the subsequent service life: Service life of plastic, wood and paper products ;</p> <p>Processing of coated articles - industrial workers ; Processing of coated articles - professional workers and consumers</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. dental embedding compounds); - for manufacture of metal products, electronic and electrical equipment</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 10)</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 7, PC 20, PC 39</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 ; SU 20: Health services</p> <p>Technical function of the substance: processing aid</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: yes</p> <p>Link to the subsequent service life: Service life of ceramic products, metal products and electronic and electrical equipment</p> <p>Remarks:</p> <p>Formulation also occurs during the same life cycle, please refer to identified use F-1.</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-7	<p><b>Use of trimagnesium bis(orthophosphate) as a laboratory chemical</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> </ul> <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> <li>- (PROC 15)</li> </ul>

	<p>Product Category used: PC 21</p> <p>Sector of end use: SU 24</p> <p>Technical function of the substance: processing aid</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>Remarks:</p> <p>Formulation also occurs during the same life cycle, please refer to identified use F-1.</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
PW-8	<p><b>Use as additive/pigment/auxiliary in plastics/resins/paints, coatings and inks</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> <li>- (ERC8f)</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 10)</li> <li>- (PROC 11)</li> <li>- (PROC 19)</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 18: Ink and toners ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 32: Polymer preparations and compounds</p> <p>Sector of end use: SU 6a: Manufacture of wood and wood products ; SU 6b: Manufacture of pulp, paper and paper products ; SU 12: Manufacture of plastics products, including compounding and conversion</p> <p>Technical function of the substance: filler ; pigment ; processing aid</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Processing of coated articles - industrial workers ; Processing of coated articles - professional workers and consumers ; Service life of plastic, wood and paper products</p> <p>Remarks:</p>

	<p>Formulation also occurs during the same life cycle, please refer to identified use F-1. <i>Related assessment: use assessed in a joint CSR</i></p>
PW-9	<p><b>Use as raw material for ceramic materials (e.g. dental embedding compounds); - for manufacture of metal products, electronic and electrical equipment</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> <li>- (ERC8f)</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 6)</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 24)</li> <li>- (PROC 26)</li> </ul> <p>Product Category used: PC 7: Base metals and alloys ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 39: Cosmetics, personal care products</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 ; SU 20: Health services</p> <p>Technical function of the substance: filler ; processing aid</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Service life of ceramic products, metal products and electronic and electrical equipment ; Processing of coated articles - industrial workers ; Processing of coated articles - professional workers and consumers</p> <p>Remarks:</p> <p>Formulation also occurs during the same life cycle, please refer to identified use F-2. <i>Related assessment: use assessed in a joint CSR</i></p>
PW-10	<p><b>Professional use as a fertiliser: mixing and loading of liquid or solid fertilisers into the</b></p>

	<p><b>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 8b)</li> <li>- (PROC 9)</li> <li>- (PROC 11)</li> <li>- (PROC 15)</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) ; processing aid</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-11	<p><b>Consumer use as a fertiliser; 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> <ul style="list-style-type: none"> <li>- (ERC8b)</li> <li>- (ERC8e)</li> </ul> <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"> <li>- - Product category (PC): PC 12</li> <li>- - Product category (PC): PC 0</li> </ul> <p>Technical function of the substance: fertilisers (soil amendments) ; processing aid</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>



	<i>Related assessment: use assessed in a joint CSR</i>
C-12	<p><b>Consumer application of paints/ coatings</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> <li>- (ERC8f)</li> </ul> <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"> <li>-- <b>Product category (PC): PC 1</b></li> <li>-- <b>Product category (PC): PC 9a</b></li> <li>-- <b>Product category (PC): PC 9b</b></li> </ul> <p>Technical function of the substance: filler ; pigment</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life: Processing of coated articles - professional workers and consumers ; Service life of plastic, wood and paper products ; Service life of ceramic products, metal products and electronic and electrical equipment</p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
C-13	<p><b>Consumer end use as/for 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> <ul style="list-style-type: none"> <li>- (ERC8a)</li> </ul> <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"> <li>-- <b>Product category (PC): PC 39</b></li> </ul> <p>Technical function of the substance: processing aid</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>

**Table 2.7. Article service life**

	<b>Article service life</b>
SL-1	<p><b>Service life of plastic, wood and paper products</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 8: Paper articles ; AC 11: Wood articles ; 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 8</b></li> <li>- - <b>Article Category (AC): AC 11</b></li> <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: no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Remarks:</p> <p><b>Exposure-related description on articles:</b></p> <p><i>Related assessment: use assessed in a joint CSR</i></p>
SL-2	<p><b>Service life of ceramic products, metal products and electronic and electrical equipment</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: no</p> <p><b>Article category related to subsequent service life (AC):</b> AC 2: Machinery, mechanical appliances, electrical/electronic articles ; AC 4: Stone, plaster, cement, glass and ceramic articles ; AC 7: Metal articles ; 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 2</b></li> <li>- - <b>Article Category (AC): AC 4</b></li> <li>- - <b>Article Category (AC): AC 7</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: no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Remarks:</p>

	<p><b>Exposure-related description on articles:</b>  <i>Related assessment: use assessed in a joint CSR</i></p>
SL-3	<p><b>Processing of coated articles - industrial workers</b>  Related composition (see section 1.x):  <u>Further description of the use:</u>  Article used by: workers  Substance intended to be released from article:  <b>Article category related to subsequent service life (AC):</b> AC 7: Metal articles ; AC 11: Wood articles  Contributing activity/technique for the environment:  - (ERC12a)  Contributing activity/technique for consumers:  Contributing activity/technique for the workers:  - (PROC 21)  - (PROC 23)  Technical function of the substance: no technical function  Tonnage of substance for that use: tonnes/year  <i>Related assessment: use assessed in a joint CSR</i></p>
SL-4	<p><b>Processing of coated articles - professional workers and consumers</b>  Related composition (see section 1.x):  <u>Further description of the use:</u>  Article used by: workers ; consumers  Substance intended to be released from article: no  <b>Article category related to subsequent service life (AC):</b> AC 7: Metal articles ; AC 11: Wood articles  Contributing activity/technique for the environment:  - (ERC10a)  - (ERC11a)  Contributing activity/technique for consumers:  - - <b>Article Category (AC): AC 7</b>  - - <b>Article Category (AC): AC 11</b>  Contributing activity/technique for the workers:  - (PROC 21)  - (PROC 23)  Technical function of the substance: no technical function  Tonnage of substance for that use: tonnes/year  Remarks:</p>

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	<p><b>Exposure-related description on articles:</b> <i>Related assessment: use assessed in a joint CSR</i></p>
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