

2.1. Manufacture

Table 2.2. Manufacture

	Manufacture
M-1	<p>Manufacture of DMP</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"> - (ERC1) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - (PROC 1) - (PROC 2) - (PROC 3) - (PROC 4) - (PROC 8a) - (PROC 8b) - (PROC 9) <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>Use of magnesium hydrogenorthophosphate for formulation (e.g. mixing/blending) of mixtures. Includes manufacture of cosmetic products.</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"> - (ERC2) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - (PROC 1) - (PROC 2) - (PROC 3) - (PROC 4) - (PROC 5) - (PROC 8a)

	<ul style="list-style-type: none">- (PROC 8b)- (PROC 9)- (PROC 14)- (PROC 15)- (PROC 26) <p><u>Product Category formulated:</u></p> <p>PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; 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><u>Technical function of the substance:</u></p> <p>corrosion inhibitor ; filler ; pigment ; processing aid ; component of a mixture</p> <p>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such</p> <p><i>Related assessment:</i></p>
F-3	<p>Use of magnesium hydrogenorthophosphate for formulation (e.g. mixing/blending) of materials</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">- (ERC3) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 1)- (PROC 2)- (PROC 3)- (PROC 4)- (PROC 5)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 13)- (PROC 14)- (PROC 26) <p><u>Product Category formulated:</u></p> <p>PC 7: Base metals and alloys ; PC 9a: Coatings and paints, thinners, paint removes ; PC 12: Fertilisers ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 29: Pharmaceuticals ; PC 32: Polymer preparations and</p>

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	<p>compounds ; PC 39: Cosmetics, personal care products</p> <p><u>Technical function of the substance:</u></p> <p>corrosion inhibitor ; filler ; pigment ; processing aid ; component of a mixture</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
IW-4	<p>Use of magnesium hydrogenorthophosphate as intermediate (for chemical reactions).</p> <p>Includes; use of TCP as raw material for the synthesis of fertilisers</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">- (ERC6a) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 1)- (PROC 2)- (PROC 3)- (PROC 4)- (PROC 5)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 19)- (PROC 26)- (PROC28) <p>Product category used: PC 12, 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>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>
IW-5	<p>Use as an additive/pigment/auxiliary in plastics/resins/paints. Includes application of anticorrosive paints</p>

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	<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">- (ERC5) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 5)- (PROC 7)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 10)- (PROC 10)- (PROC 13)- (PROC 19)- (PROC 22)- (PROC 23)- (PROC 26) <p>Product category used: PC 1, PC 9a, PC 9b, 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: corrosion inhibitor ; 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: no</p> <p>Link to the subsequent service life:</p>
IW-6	<p>Use as raw material for ceramic materials (e.g. dental embedding compounds); - for manufacture of metal products, electronic and electrical equipment</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">- (ERC5) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 5)- (PROC 6)- (PROC 7)- (PROC 8a)- (PROC 8b)- (PROC 9)

	<ul style="list-style-type: none">- (PROC 10)- (PROC 13)- (PROC 14)- (PROC 19)- (PROC 22)- (PROC 23)- (PROC 26) <p>Product category used: PC 7, PC 20</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:</p>
IW-7	<p>Use as/for food/feed additive - cosmetics - pharmaceuticals</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">- (ERC4) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 1)- (PROC 2)- (PROC 3)- (PROC 4)- (PROC 5)- (PROC 6)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 14)- (PROC 19)- (PROC 26) <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>Tonnage of substance for that use: tonnes/year</p> <p>Substance supplied to that use: as such ; in a mixture</p>

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	Subsequent service life relevant for that use: no Link to the subsequent service life:
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Table 2.5. Uses by professional workers

	Uses by professional workers
PW-8	<p>Use of magnesium hydrogenorthophosphate as a laboratory chemical</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">- (ERC8b) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 15) <p>Product Category used: PC 21: Laboratory chemicals</p> <p>Sector of end use: SU 24: Scientific research and development</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>
PW-9	<p>Use as additive/pigment/auxiliary in plastics/resins/paints. Includes application of anticorrosive paints</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">- (ERC8c)- (ERC8f) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 5)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 10)- (PROC 11)- (PROC 19)- (PROC 26) <p>Product Category used: PC 1: Adhesives, sealants ; 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</p>

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	<p>preparations and compounds</p> <p>Sector of end use: SU 12: Manufacture of plastics products, including compounding and conversion</p> <p>Technical function of the substance: corrosion inhibitor ; filler ; pigment ; 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>
PW-10	<p>Use as raw material for ceramic materials (e.g. dental embedding compounds); - for manufacture of metal products, electronic and electrical equipment</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">- (ERC8c) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 4)- (PROC 5)- (PROC 6)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 11)- (PROC 13)- (PROC 14)- (PROC 19)- (PROC 24)- (PROC 26) <p>Product Category used: PC 7: Base metals and alloys ; 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 ; 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>Subsequent service life relevant for that use: yes</p> <p>Link to the subsequent service life:</p>
PW-11	<p>Use as/for food/feed additive, cosmetics, pharmaceuticals</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">- (ERC8a) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 5)- (PROC 6)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 10)- (PROC 11)- (PROC 13)- (PROC 14)- (PROC 15)- (PROC 26) <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>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>
PW-12	<p>Professional use as a fertiliser: 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>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">- (ERC8b)- (ERC8e) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none">- (PROC 5)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 11)- (PROC 15) <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>

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	Technical function of the substance: fertilisers (soil amendments) ; processing aid Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Link to the subsequent service life:
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Table 2.6. Consumer uses

	Consumer uses
C-13	Consumer use as a fertiliser; mixing and application of solid or liquid fertilisers at home for indoor or outdoor plants Related composition (see section 1.x): <u>Further description of the use:</u> Contributing activity/technique for the environment: - (ERC8b) - (ERC8e) Contributing activity/technique for consumers: - - Product category (PC): PC 12 - - Product category (PC): PC 0 Technical function of the substance: fertilisers (soil amendments) ; processing aid Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Link to the subsequent service life:
C-14	Consumer application of anticorrosive paints Related composition (see section 1.x): <u>Further description of the use:</u> Contributing activity/technique for the environment: - (ERC8b) - (ERC8e) Contributing activity/technique for consumers: - - Product category (PC): PC 12 Technical function of the substance: fertilisers (soil amendments) ; processing aid Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life:
C-15	End use of cosmetics Related composition (see section 1.x): <u>Further description of the use:</u>

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	<p>Contributing activity/technique for the environment: - (ERC8a)</p> <p>Contributing activity/technique for consumers: - - Product category (PC): PC 39</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>
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Table 2.7. Article service life

	Article service life
SL-1	<p>Service life of plastic and wood products</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>Article category related to subsequent service life (AC): AC 11: Wood articles ; AC 13: Plastic articles</p> <p>Contributing activity/technique for the environment: - (ERC10a) - (ERC11a)</p> <p>Contributing activity/technique for consumers: - - Article Category (AC): AC 11 - - Article Category (AC): AC 13</p> <p>Contributing activity/technique for the workers: - (PROC 21)</p> <p>Technical function of the substance: no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p>
SL-2	<p>Service life of ceramic products, metal products and electronic and electrical equipment</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>Article category related to subsequent service life (AC): AC 2: Machinery, mechanical appliances, electrical/electronic articles ; AC 4: Stone, plaster, cement, glass and ceramic articles ; AC 7: Metal articles</p> <p>Contributing activity/technique for the environment:</p>

	<p>- (ERC10a) - (ERC11a)</p> <p>Contributing activity/technique for consumers: -- Article Category (AC): AC 2 -- Article Category (AC): AC 4 -- Article Category (AC): AC 7</p> <p>Contributing activity/technique for the workers: - (PROC 21)</p> <p>Technical function of the substance: no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p>
SL-3	<p>Removal of coated articles, removal of paint, blasting – industrial uses</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Article used by: workers</p> <p>Substance intended to be released from article: no</p> <p>Article category related to subsequent service life (AC): AC 1: Vehicles ; AC 2: Machinery, mechanical appliances, electrical/electronic articles ; AC 7: Metal articles ; AC 11: Wood articles</p> <p>Contributing activity/technique for the environment: - (ERC12a)</p> <p>Contributing activity/technique for consumers:</p> <p>Contributing activity/technique for the workers: - (PROC 21) - (PROC 23) - (PROC 24)</p> <p>Technical function of the substance: no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p>
SL-4	<p>Removal of coated articles, removal of paint, blasting - professional and consumers</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>Article category related to subsequent service life (AC): AC 1: Vehicles ; AC 2: Machinery, mechanical appliances, electrical/electronic articles ; AC 7: Metal articles ; AC 11: Wood articles</p> <p>Contributing activity/technique for the environment: - (ERC10a ; ERC11a)</p>

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	<p>Contributing activity/technique for consumers: - - Article Category (AC): AC 1 ; AC 2 ; AC 7</p> <p>Contributing activity/technique for the workers: - (PROC 21) - (PROC 23) - (PROC 24)</p> <p>Technical function of the substance: no technical function</p> <p>Tonnage of substance for that use: tonnes/year</p>
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