

2.1. Manufacture

Table 2.2. Manufacture

| | Manufacture |
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| M-1 | <p>Manufacture of aluminium metaphosphate</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) - Mixing or blending in batch processes (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - PROC 22 - PROC 23 - Handling of solid inorganic substances at ambient temperature (PROC 26) - PROC 28 <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 |
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| F-1 | <p>Formulation of mixtures</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 mixtures</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) |

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| | <ul style="list-style-type: none"> - (PROC 2) - (PROC 3) - (PROC 4) - (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - Tabletting, compression, extrusion, pelletisation, granulation (PROC 14) - PROC 22 - PROC 23 - Handling of solid inorganic substances at ambient temperature (PROC 26) - PROC 28 <p><u>Product Category formulated:</u></p> <p>PC 9a: Coatings and paints, thinners, paint removers; PC 9b: Fillers, putties, plasters, modelling clay PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals</p> <p><u>Technical function of the substance:</u></p> <ul style="list-style-type: none"> - Surface modifier - Ion exchange agent - Binder - Filler - Hardener <p>Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such</p> <p><i>Related assessment: use assessed in a joint CSR</i></p> |
| F-2 | <p>Formulation of materials</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"> - (ERC3) <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - (PROC 1) - (PROC 2) - (PROC 3) - (PROC 4) |

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| | <ul style="list-style-type: none"> - (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - Tabletting, compression, extrusion, pelletisation, granulation (PROC 14) - PROC 22 - PROC 23 - Handling of solid inorganic substances at ambient temperature (PROC 26) - PROC 28 <p><u>Product Category formulated:</u></p> <p>PC 9a: Coatings and paints, thinners, paint removers; PC 9b: Fillers, putties, plasters, modelling clay; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals</p> <p><u>Technical function of the substance:</u></p> <ul style="list-style-type: none"> - Surface modifier - Ion exchange agent - Binder - Filler - Hardener <p>Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such <i>Related assessment: use assessed in a joint CSR</i></p> |
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Table 2.4. Uses at industrial sites

| | Uses at industrial sites |
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| IW-1 | <p>Industrial end use as/for coating systems on ceramic materials and binding agent in ceramic and refractory materials</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Industrial end use as / for</p> <ul style="list-style-type: none"> - coating systems on ceramic materials (glazes, coatings, oxidation protection etc.); - binding agent in ceramic and refractory materials. <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - (ERC5) <p>Contributing activity/technique for the workers :</p> |

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| | <ul style="list-style-type: none">- (PROC 5)- (PROC 6)- (PROC 7)- (PROC 8a)- (PROC 8b)- (PROC 9)- (PROC 10)- (PROC 13)- (PROC 14)- (PROC 21)- (PROC 22)- (PROC 23)- (PROC 26)- PROC 28 <p>Product Category: PC 9a: Coatings and paints, thinners, paint removers; PC 9b: Fillers, putties, plasters, modelling clay; PC 20: Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents; PC 0: Other: UCN Codes B20300, K 35900, R 30200</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: binding agents (resin or (pre)polymers in coatings and adhesives)</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: Ceramic and refractory materials (workers at industrial sites)</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-2 | <p>Use of aluminium metaphosphate as an intermediate in synthesis</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Use of the substance as intermediate (for chemical reactions).</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) |

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| | <ul style="list-style-type: none"> - (PROC 2) - (PROC 3) - (PROC 4) - (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - (PROC 26) - PROC 28 <p>Sector of end use: SU 4: Manufacture of food products ; 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) ; laboratory chemicals</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> |
| IW-3 | <p>Use of aluminium metaphosphate as a processing aid in synthesis</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 8a) - (PROC 8b) - (PROC 9) - (PROC 26) - PROC 28 <p>Product category used: PC 20: Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents</p> <p>Sector of end use: SU 4: Manufacture of food products ; SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals</p> <p>Technical function of the substance: pH regulating agent ; processing aid</p> |

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| | <p>Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture 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> |
| IW-4 | <p>Use of aluminium metaphosphate as a reactive processing aid in synthesis Related composition (see section 1.x): <u>Further description of the use:</u> Contributing activity/technique for the environment : - (ERC6b) Contributing activity/technique for the workers : - (PROC 1) - (PROC 2) - (PROC 3) - (PROC 4) - (PROC 5) - (PROC 8a) - (PROC 8b) - (PROC 9) - (PROC 26) Product category used: PC 20: Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents Sector of end use: SU 4: Manufacture of food products ; SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) ; SU 9: Manufacture of fine chemicals Technical function of the substance: pH regulating agent ; processing aid Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture 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> |

Table 2.5. Uses by professional workers

| | Uses by professional workers |
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| PW-1 | <p>Use of the substance as a laboratory chemical (intermediate and reactive processing aid) Related composition (see section 1.x): <u>Further description of the use:</u> Use of the substance as laboratory chemical</p> |

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| | <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - (ERC8b) - ERC 8e <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - (PROC 15) <p>Product Category used: PC 19: Intermediate ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals</p> <p>Sector of end use: SU 24: Scientific research and development</p> <p>Technical function of the substance: pH regulating agent ; 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> |
| PW-2 | <p>Use of the substance as a laboratory chemical (processing aid)</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Use of the substance as laboratory chemical</p> <p>Contributing activity/technique for the environment :</p> <ul style="list-style-type: none"> - (ERC8b) - ERC 8e <p>Contributing activity/technique for the workers :</p> <ul style="list-style-type: none"> - (PROC 15) <p>Product Category used: PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals</p> <p>Sector of end use: SU 24: Scientific research and development</p> <p>Technical function of the substance: pH regulating agent ; 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> |
| PW-3 | <p>Professional end use as/for coating systems on ceramic materials and binding agent in ceramic and refractory materials</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Professional end use as / for</p> <ul style="list-style-type: none"> - coating systems on ceramic materials (glazes, coatings, oxidation protection etc.); - binding agent in ceramic and refractory materials. |

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| | <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 13) - (PROC 14) - (PROC 19) - (PROC 21) - (PROC 23) - (PROC 26) <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 0: Other:UCN-Codes B 20300, K 35900, R 30200</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: binding agents (resin or (pre)polymers in coatings and adhesives)</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: Ceramic and refractory materials (workers at industrial sites)</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 2.6. Consumer uses

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| C-1 | <p>Consumer end use of products and materials containing the substance including use as binding agent in ceramic and refractory materials</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:</p> <ul style="list-style-type: none">- (ERC8c)- (ERC8f) <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none">-- Product category (PC): PC 9a-- Product category (PC): PC 9b-- Product category (PC): PC 20-- Product category (PC): PC 0 <p>Technical function of the substance: binding agents (resin or (pre)polymers in coatings and adhesives)</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: Ceramic and refractory materials (workers at industrial sites)</p> <p><i>Related assessment: use assessed in a joint CSR</i></p> |
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Table 2.7. Article service life

| | Article service life |
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| SL-1 | <p>Ceramic and refractory materials (workers at industrial sites)</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Constructional articles and building material for indoor use: wall construction material ceramic, metal, plastic and wood construction material, insulating material.</p> <p>Stone, plaster, cement, glass and ceramic articles.</p> <p>Article used by: workers</p> <p>Substance intended to be released from article:</p> <p>Article category related to subsequent service life (AC): AC 4: Stone, plaster, cement, glass and ceramic articles ; AC 7: Metal articles ; AC 11: Wood articles ; AC 13: Plastic articles ; AC 0: Other: Construction articles and building material</p> <p>Contributing activity/technique for the environment:</p> <ul style="list-style-type: none">- (ERC12a) <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none">- Article Category (AC): AC 4-- Article Category (AC): AC 7-- Article Category (AC): AC 11-- Article Category (AC): AC 13-- Article Category (AC): AC 01 <p>Contributing activity/technique for the workers:</p> |

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| | <p>- (PROC 21)</p> <p>Technical function of the substance: binding agents (resin or (pre)polymers in coatings and adhesives)</p> <p>Tonnage of substance for that use: tonnes/year</p> <p><i>Related assessment: use assessed in a joint CSR</i></p> |
| SL-2 | <p>Ceramic and refractory materials (professionals)</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Constructional articles and building material for indoor use: wall construction material ceramic, metal, plastic and wood construction material, insulating material.</p> <p>Stone, plaster, cement, glass and ceramic articles.</p> <p>Article used by: workers</p> <p>Substance intended to be released from article:</p> <p>Article category related to subsequent service life (AC): AC 4: Stone, plaster, cement, glass and ceramic articles ; AC 7: Metal articles ; AC 11: Wood articles ; AC 13: Plastic articles ; AC 0: Other: Construction articles and building material</p> <p>Contributing activity/technique for the environment:</p> <ul style="list-style-type: none"> - (ERC10a) - (ERC11a) <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none"> -- Article Category (AC): AC 4 -- Article Category (AC): AC 7 -- Article Category (AC): AC 11 -- Article Category (AC): AC 13 -- Article Category (AC): AC 01 <p>Contributing activity/technique for the workers:</p> <ul style="list-style-type: none"> - (PROC 21) <p>Technical function of the substance: binding agents (resin or (pre)polymers in coatings and adhesives)</p> <p>Tonnage of substance for that use: tonnes/year</p> <p><i>Related assessment: use assessed in a joint CSR</i></p> |
| SL-3 | <p>Ceramic and refractory materials (consumers)</p> <p>Related composition (see section 1.x):</p> <p><u>Further description of the use:</u></p> <p>Constructional articles and building material for indoor use: wall construction material ceramic, metal, plastic and wood construction material, insulating material.</p> <p>Stone, plaster, cement, glass and ceramic articles.</p> |

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| <p>Article used by: workers ; consumers</p> <p>Substance intended to be released from article:</p> <p>Article category related to subsequent service life (AC): AC 4: Stone, plaster, cement, glass and ceramic articles ; AC 7: Metal articles ; AC 11: Wood articles ; AC 13: Plastic articles ; AC 0: Other: Construction articles and building material</p> <p>Contributing activity/technique for the environment:</p> <ul style="list-style-type: none">- (ERC10a)- (ERC11a) <p>Contributing activity/technique for consumers:</p> <ul style="list-style-type: none">- Article Category (AC): AC 4- - Article Category (AC): AC 7- - Article Category (AC): AC 11- - Article Category (AC): AC 13- - Article Category (AC): AC 01 <p>Contributing activity/technique for the workers:</p> <p>Technical function of the substance: binding agents (resin or (pre)polymers in coatings and adhesives)</p> <p>Tonnage of substance for that use: tonnes/year</p> <p><i>Related assessment: use assessed in a joint CSR</i></p> |
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