

## 2. MANUFACTURE AND USES

### 2.1. Manufacture

Table 2.2. Manufacture

	Manufacture
M-1	<p><b>Manufacture of Trimanganese bis(orthophosphate)</b>  <u>Further description of manufacturing process:</u>            Contributing activity/technique for the environment :            - (ERC1)            Contributing activity/technique for the workers :            - PROC 1            - PROC 2            - PROC 3            - PROC 4            - PROC 5            - PROC 8a            - PROC 8b            - PROC 9            - PROC 26</p> <p>use registered according to REACH Article 10; total tonnage manufactured/imported <math>\geq 10</math>tonnes/year per registrant            Tonnage of substance for that use: tonnes/year  <i>Related assessment: use assessed in a joint CSR</i></p>

### 2.2. Identified uses

Table 2.3. Formulation

	Formulation
F-2	<p><b>Formulation into solid matrices and re-packing</b>  <u>Further description of the use:</u>            Contributing activity/technique for the environment :            - (ERC2)            Contributing activity/technique for the workers :            - PROC 1            - PROC 2            - PROC 3            - PROC 4            - PROC 5            - PROC 7            - PROC 8a            - PROC 8b            - PROC 9            - PROC 10            - PROC 13            - PROC 14            - PROC 22            - PROC 26</p> <p><b>Product Category formulated:</b>            PC 9a: Coatings and paints, thinners, paint removes ;            PC 12: Fertilisers ;            PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p><b>Technical function of the substance:</b>            corrosion inhibitor ;            fertilisers (soil amendments) ;            insulators ;</p>

	<p>plating agent  use registered according to REACH Article 10; total tonnage  manufactured/imported <math>\geq 10</math>tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  Substance supplied to that use: as such ; in a mixture  <i>Related assessment: use assessed in a joint CSR</i></p>
F-3	<p><b>Formulation into solid matrices and re-packing</b>  <u>Further description of the use:</u>  Contributing activity/technique for the environment :  - (ERC3)  Contributing activity/technique for the workers :  - PROC 1  - PROC 2  - PROC 3  - PROC 4  - PROC 5  - PROC 7  - PROC 8a  - PROC 8b  - PROC 9  - PROC 10  - PROC 13  - PROC 14  - PROC 22  - PROC 26</p> <p><b>Product Category formulated:</b>  PC 12: Fertilisers ;  PC 14: Metal surface treatment products, including galvanic and electroplating products ;  PC 15: Non-metal-surface treatment products ;  PC 21: Laboratory chemicals</p> <p><b>Technical function of the substance:</b>  corrosion inhibitor ;  fertilisers (soil amendments) ;  insulators ; plating agent  use registered according to REACH Article 10; total tonnage  manufactured/imported <math>\geq 10</math>tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  Substance supplied to that use: as such ; in a mixture  <i>Related assessment: use assessed in a joint CSR</i></p>

Table 2.4. Uses at industrial sites

	Uses at industrial sites
IW-5	<p><b>Industrial use as fertilizer</b>  <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 14  - PROC 26</p>

	<p><b>Product Category used:</b> PC 12: Fertilisers</p> <p><b>Sector of end use:</b> SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> <p><b>Technical function of the substance:</b> fertilisers (soil amendments) use registered according to REACH Article 10; total tonnage manufactured/imported <math>\geq 10</math>tonnes/year per registrant 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 <i>Related assessment: use assessed in a joint CSR</i></p>
IW-4	<p><b>Industrial use as metal coating inkl. insulators</b> <u>Further description of the use:</u> Contributing activity/technique for the environment : - (ERC5) Contributing activity/technique for the workers : - PROC 5 - PROC 7 - PROC 8a - PROC 8b - PROC 9 - PROC 10 - PROC 13 - PROC 22 - PROC 26</p> <p><b>Product Category used:</b> PC 9a: Coatings and paints, thinners, paint removes ; PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p><b>Sector of end use:</b> SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment ; SU 23: Electricity, steam, gas water supply and sewage treatment</p> <p><b>Technical function of the substance:</b> corrosion inhibitor ; insulators ; plating agent use registered according to REACH Article 10; total tonnage manufactured/imported <math>\geq 10</math>tonnes/year per registrant 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 <i>Related assessment: use assessed in a joint CSR</i></p>

Table 2.5. Uses by professional workers

	Uses by professional workers
PW-6	<p><b>Professional use as metal coating inkl. insulators</b> <u>Further description of the use:</u> Contributing activity/technique for the environment : - ERC8c - ERC8f Contributing activity/technique for the workers : - PROC 5 - PROC 7 - PROC 8a - PROC 8b - PROC 9 - PROC 10</p>

	<ul style="list-style-type: none"> <li>- PROC 13</li> <li>- PROC 22</li> <li>- PROC 26</li> </ul> <p><b>Product Category used:</b> PC 9a: Coatings and paints, thinners, paint removers ; PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p><b>Sector of end use:</b> SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment ; SU 23: Electricity, steam, gas water supply and sewage treatment</p> <p><b>Technical function of the substance:</b> corrosion inhibitor ; insulators ; plating agent use registered according to REACH Article 10; total tonnage manufactured/imported &gt;=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no <i>Related assessment: use assessed in a joint CSR</i></p>
PW-7	<p><b>Professional use as fertiliser</b> <u>Further description of the use:</u> Contributing activity/technique for the environment :  <ul style="list-style-type: none"> <li>- ERC8b</li> <li>- ERC8e</li> </ul> Contributing activity/technique for the workers :  <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 26</li> </ul> </p> <p><b>Product Category used:</b> PC 12: Fertilisers</p> <p><b>Sector of end use:</b> SU 1: Agriculture, forestry and fishing</p> <p><b>Technical function of the substance:</b> fertilisers (soil amendments) use registered according to REACH Article 10; total tonnage manufactured/imported &gt;=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no <i>Related assessment: use assessed in a joint CSR</i></p>

Table 2.6. Consumer uses

	Consumer uses
C-8	<p><b>Consumer use as metal coating inkl. insulators</b> <u>Further description of the use:</u> Contributing activity/technique for the environment:  <ul style="list-style-type: none"> <li>- (ERC8c)</li> </ul> Contributing activity/technique for consumers:  <ul style="list-style-type: none"> <li>- <b>Product category (PC):</b></li> <li>- PC 9a</li> <li>- PC 14</li> </ul> </p> <p><b>Technical function of the substance:</b> corrosion inhibitor ; insulators ; plating agent</p>

	<p>use registered according to REACH Article 10; total tonnage manufactured/imported <math>\geq 10</math> tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  Subsequent service life relevant for that use: no  <i>Related assessment: use assessed in a joint CSR</i></p>
C-9	<p><b>Consumer use as fertiliser</b>  <u>Further description of the use:</u>  Contributing activity/technique for the environment:  - <b>ERC8b</b>  - <b>ERC8e</b>  Contributing activity/technique for consumers:  - <b>Product category (PC):</b>  - <b>PC 12</b>  <b>Technical function of the substance:</b>  fertilisers (soil amendments)  use registered according to REACH Article 10; total tonnage manufactured/imported <math>\geq 10</math> tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  Subsequent service life relevant for that use: no  <i>Related assessment: use assessed in a joint CSR</i></p>

Table 2.7. Article service life

	<b>Article service life</b>
SL-10	<p><b>Service life industrial use and/or processing of articles containing the bound substance</b>  <u>Further description of the use:</u>  Article used by: workers  Substance intended to be released from article: no  <b>Article category related to subsequent service life (AC):</b>  AC1a: Vehicles covered by End of Life Vehicles (ELV) directive ;  AC1b: Other vehicles ;  AC2a: Machinery, mechanical appliances, electrical/electronic articles covered by the Waste Electrical and Electronic Equipment (WEEE) directive ;  AC 3: Electrical batteries and accumulators ;  AC 7: Metal articles  Contributing activity/technique for the environment:  - <b>(ERC12c)</b>  Contributing activity/technique for consumers:  Contributing activity/technique for the workers:  - <b>PROC 21</b>  - <b>PROC 24</b>  <b>Technical function of the substance:</b>  corrosion inhibitor ;  insulators ;  plating agent  use registered according to REACH Article 10; total tonnage manufactured/imported <math>\geq 10</math> tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  <i>Related assessment: use assessed in a joint CSR</i></p>
SL-11	<p><b>Service life professional use and/or processing of articles containing the bound substance</b>  <u>Further description of the use:</u>  Article used by: workers  Substance intended to be released from article: no  <b>Article category related to subsequent service life (AC):</b>  AC1a: Vehicles covered by End of Life Vehicles (ELV) directive ;  AC1b: Other vehicles ;</p>

	<p>AC2a: Machinery, mechanical appliances, electrical/electronic articles covered by the Waste Electrical and Electronic Equipment (WEEE) directive ;  AC 3: Electrical batteries and accumulators ;  AC 7: Metal articles  Contributing activity/technique for the environment:  - <b>ERC10a</b>  - <b>ERC11a</b>  Contributing activity/technique for consumers:  Contributing activity/technique for the workers:  - <b>PROC 21</b>  - <b>PROC 24</b>  <b>Technical function of the substance:</b>  corrosion inhibitor ;  insulators ;  plating agent  use registered according to REACH Article 10; total tonnage  manufactured/imported <math>\geq 10</math>tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  <i>Related assessment: use assessed in a joint CSR</i></p>
SL-12	<p><b>Service life consumer use and/or processing of articles containing the bound substance</b>  <u>Further description of the use:</u>  Article used by: consumers  Substance intended to be released from article: no  <b>Article category related to subsequent service life (AC):</b>  Contributing activity/technique for the environment:  - <b>ERC10a</b>  - <b>ERC11a</b>  Contributing activity/technique for consumers:  - <b>Article Category (AC):</b>  - <b>AC1a ;</b>  - <b>AC1b ;</b>  - <b>AC2a ;</b>  - <b>AC 3 ;</b>  - <b>AC 7</b>  Contributing activity/technique for the workers:  <b>Technical function of the substance:</b>  corrosion inhibitor ;  insulators ;  plating agent  use registered according to REACH Article 10; total tonnage  manufactured/imported <math>\geq 10</math>tonnes/year per registrant  Tonnage of substance for that use: tonnes/year  <i>Related assessment: use assessed in a joint CSR</i></p>