For CSR……

2.1. Manufacture

**Table 1. Manufacture**

| **Identifiers** | **Use descriptors** | **Other information** |
| --- | --- | --- |
| M-1: Manufacturing of the substance (continuous and batch synthesis), including handling, storage and q control  (ES1) | Environmental release category (ERC):  ERC 1: Manufacture of substances  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed, batch process  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 15: Use as laboratory reagent |  |

**Table 2. Manufacturing process related to the specified manufacture(s)**

| **Related manufacture(s)** | **Description of manufacturing process** |
| --- | --- |
| M-1: Manufacturing of the substance (continuous and batch synthesis), including handling, storage and q control |  |

2.2. Identified uses

**Table 3. Formulation**

| Identifiers | Use descriptors | Other information |
| --- | --- | --- |
| F-1: Industrial distribution  (ES2) | Environmental release category (ERC):  ERC 2: Formulation of preparations  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 15: Use as laboratory reagent  Product Category formulated:  PC 21: Laboratory chemicals  PC 37: Water treatment chemicals  Technical function of the substance during formulation:  other: Technical function not applicable for distribution | Substance supplied to that use:  As such  In a mixture |
| F-2: Industrial formulation to formulate chemical product mixtures  (ES 3) | Environmental release category (ERC):  ERC 2: Formulation of preparations  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 15: Use as laboratory reagent  Product Category formulated:  PC 21: Laboratory chemicals  PC 37: Water treatment chemicals  Technical function of the substance during formulation:  other: component of a mixture | Substance supplied to that use:  As such  In a mixture |

**Table 4. Uses at industrial sites**

| Identifiers | Use descriptors | Other information |
| --- | --- | --- |
| IW-1: Industrial USE of substance as chemical intermediate – manufacture of chemicals  (ES 8) | Environmental release category (ERC):  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  Product Category used:  PC 19: Intermediate  Sector of end use:  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  SU 9: Manufacture of fine chemicals  Technical function of the substance during formulation:  Intermediates | Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO |
| IW-2: Industrial Use of substance as reactive agent – water treatment  (ES 4)  IW-3: Industrial use of substance as reactive agent – metal surface treatment  (ES 5)  IW-4: Industrial use of substance as reactive agent in basic metals manufacture  (ES 6)  IW-5: Industrial use of substance as reactive agent in cleaning products  (ES 7)  IW-6: Industrial use of substance – mineral acidification (ES 10) | Environmental release category (ERC):  ERC 6b: Industrial use of reactive processing aids  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  Product Category used:  PC 37: Water treatment chemicals  Sector of end use:  SU 23: Electricity, steam, gas water supply and sewage treatment  Technical function of the substance during formulation:  Processing aid, not otherwise listed; other : source of fluoride  Environmental release category (ERC):  ERC 6b: Industrial use of reactive processing aids  Process category (PROC):  PROC 13: Treatment of articles by dipping and pouring  Product Category used:  PC0, UCN M15500- Other, surface treatment of metal  PC 14: Metal surface treatment products, including galvanic and electroplating products  PC 25: Metal working fluids  PC 38: Welding and soldering products (with flux coatings or flux cores.), flux products  Sector of end use:  SU 14: Manufacture of basic metals, including alloys  SU 15: Manufacture of fabricated metal products, except machinery and equipment  Technical function of the substance during formulation:  Intermediate  Environmental release category (ERC):  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  Product Category used:  PC0, UCN G05100- Salts for galvanic baths; R30700- Raw materials for production of metal  PC 7: Base metals and alloys  PC 19: Intermediate  Sector of end use (SU):  SU 14: Manufacture of basic metals, including alloys  SU 15: Manufacture of fabricated metal products, except machinery and equipment  SU0 Other, NACE codes CB 13.10 Mining of iron ores; DJ 27.10 – Manufacture of basic iron and steel and of ferro-alloys;DG 24.13 – Manufacture of other inorganic basic chemicals  Technical function of the substance during formulation: Intermediate  Environmental release category (ERC):  ERC 6b: Industrial use of reactive processing aids  Process category (PROC):  PROC 7: Industrial spraying  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 10: Roller application or brushing  Product Category used (PC):  PC 35: Washing and cleaning products (including solvent based products)  Sector of end use (SU):  SU 23: Electricity, steam, gas, water supply and sewage treatment  Technical function of the substance during formulation:  other: Technical function not applicable for distribution  Environmental release category (ERC):  ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)  ERC 6b: Industrial use of reactive processing aids  Process category (PROC):  PROC 3: Use in closed batch process (synthesis or formulation)  Product Category used (PC): n.a.  Sector of end use (SU):  SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)  Technical function of the substance during formulation:  other: Technical function not applicable for distribution | Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO  Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO  Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO  Substance supplied to that use:  As such  Subsequent service life relevant for that use: NO  Substance supplied to that use:  As such  Subsequent service life relevant for that use: NO |

**Table 5. Uses by professional workers**

| Identifiers | Use descriptors | Other information |
| --- | --- | --- |
| PW-1: Professional use of substance as a reactive agent – fluoridation of potable water  (ES 4)  PW-2: Professional use of substance as a cleaning agent (ES 7)  PW-3: Professional use of substance as a laboratory agent (ES 9) | Environmental release category (ERC):  ERC 8a:Wide dispersive indoor use of processing aids in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems  Process category (PROC):  PROC 1: Use in closed process, no likelihood of exposure  PROC 2: Use in closed, continuous process with occasional controlled exposure  PROC 3: Use in closed batch process (synthesis or formulation)  PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  PROC 8a: Wide dispersive indoor use of processing aids in open systems  PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  Product Category used (PC):  PC 37: Water treatment chemicals  Sector of end use: n.a.  Technical function of the substance during formulation: Processing aid, not otherwise listed; other : source of fluoride  Environmental release category (ERC):  ERC 8a:Wide dispersive indoor use of processing aids in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems  Process category (PROC):  PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  PROC 10: Roller application or brushing  PROC 11: Non Industrial spraying  Product Category used (PC):  PC 35: Washing and cleaning products (including solvent based products)  Sector of end use (SU): n.a.  Environmental release category (ERC):  ERC 8a:Wide dispersive indoor use of processing aids in open systems  ERC 8b: Wide dispersive indoor use of reactive substances in open systems  Process category (PROC):  PROC 15: Laboratory agent  Product Category used (PC):  PC 21: Laboratory chemicals  Sector of end use: n.a. | Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO  Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO  Substance supplied to that use:  As such  In a mixture  Subsequent service life relevant for that use: NO |