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 substancesProcess category (PROC):PROC 1: Use in closed process, no likelihood of exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 3: Use in closed, batch process PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC 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 preparationsProcess category (PROC):PROC 1: Use in closed process, no likelihood of exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC 15: Use as laboratory reagentProduct Category formulated:PC 21: Laboratory chemicalsPC 37: Water treatment chemicalsTechnical function of the substance during formulation:other: Technical function not applicable for distribution | Substance supplied to that use:As suchIn a mixture |
| F-2: Industrial formulation to formulate chemical product mixtures (ES 3) | Environmental release category (ERC):ERC 2: Formulation of preparationsProcess category (PROC):PROC 1: Use in closed process, no likelihood of exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 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 facilitiesPROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC 15: Use as laboratory reagentProduct Category formulated:PC 21: Laboratory chemicalsPC 37: Water treatment chemicalsTechnical function of the substance during formulation:other: component of a mixture | Substance supplied to that use:As suchIn 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 exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 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 facilitiesPROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)Product Category used:PC 19: IntermediateSector of end use: SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)SU 9: Manufacture of fine chemicalsTechnical function of the substance during formulation:Intermediates | Substance supplied to that use:As suchIn a mixtureSubsequent 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 aidsProcess category (PROC):PROC 1: Use in closed process, no likelihood of exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 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 facilitiesProduct Category used:PC 37: Water treatment chemicalsSector of end use:SU 23: Electricity, steam, gas water supply and sewage treatmentTechnical function of the substance during formulation:Processing aid, not otherwise listed; other : source of fluorideEnvironmental release category (ERC):ERC 6b: Industrial use of reactive processing aidsProcess category (PROC):PROC 13: Treatment of articles by dipping and pouringProduct Category used:PC0, UCN M15500- Other, surface treatment of metalPC 14: Metal surface treatment products, including galvanic and electroplating productsPC 25: Metal working fluidsPC 38: Welding and soldering products (with flux coatings or flux cores.), flux productsSector of end use:SU 14: Manufacture of basic metals, including alloysSU 15: Manufacture of fabricated metal products, except machinery and equipmentTechnical function of the substance during formulation:IntermediateEnvironmental 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 exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 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 metalPC 7: Base metals and alloysPC 19: IntermediateSector of end use (SU):SU 14: Manufacture of basic metals, including alloysSU 15: Manufacture of fabricated metal products, except machinery and equipmentSU0 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 chemicalsTechnical function of the substance during formulation: IntermediateEnvironmental release category (ERC):ERC 6b: Industrial use of reactive processing aidsProcess 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 brushingProduct 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 treatmentTechnical function of the substance during formulation:other: Technical function not applicable for distributionEnvironmental release category (ERC):ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)ERC 6b: Industrial use of reactive processing aidsProcess 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 suchIn a mixtureSubsequent service life relevant for that use: NOSubstance supplied to that use:As suchIn a mixtureSubsequent service life relevant for that use: NOSubstance supplied to that use:As suchIn a mixtureSubsequent service life relevant for that use: NOSubstance supplied to that use:As suchSubsequent service life relevant for that use: NOSubstance supplied to that use:As suchSubsequent 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 systemsERC 8b: Wide dispersive indoor use of reactive substances in open systemsProcess category (PROC): PROC 1: Use in closed process, no likelihood of exposurePROC 2: Use in closed, continuous process with occasional controlled exposurePROC 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 systemsPROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilitiesProduct Category used (PC):PC 37: Water treatment chemicalsSector of end use: n.a.Technical function of the substance during formulation: Processing aid, not otherwise listed; other : source of fluorideEnvironmental release category (ERC):ERC 8a:Wide dispersive indoor use of processing aids in open systemsERC 8b: Wide dispersive indoor use of reactive substances in open systemsProcess category (PROC):PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC 10: Roller application or brushingPROC 11: Non Industrial sprayingProduct 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 systemsERC 8b: Wide dispersive indoor use of reactive substances in open systemsProcess category (PROC): PROC 15: Laboratory agentProduct Category used (PC):PC 21: Laboratory chemicalsSector of end use: n.a. | Substance supplied to that use:As suchIn a mixtureSubsequent service life relevant for that use: NOSubstance supplied to that use:As suchIn a mixtureSubsequent service life relevant for that use: NOSubstance supplied to that use:As suchIn a mixtureSubsequent service life relevant for that use: NO |