

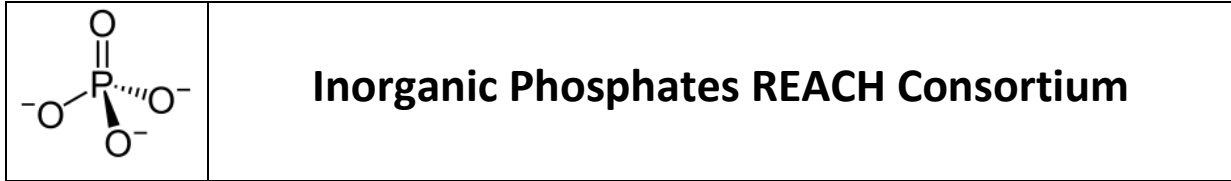
Inorganic Phosphates REACH Consortium

| | |
|-----------------|---|
| Version | SUBSTANCE IDENTIFICATION PROFILE (SIP) |
| v.4 | |
| 26/02/21 | |

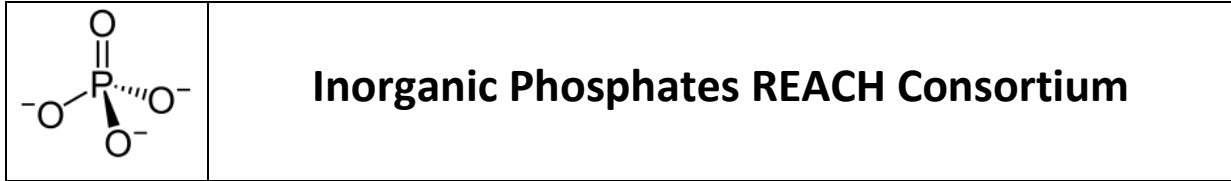
| No | 1.1. Chemical Name | 1.2. EC Number | 1.3. CAS Number | 1.4. Composition Type |
|------|-------------------------------|----------------|-----------------|----------------------------|
| IP28 | Tetrairon tris(pyrophosphate) | 233-190-0 | 10058-44-3 | mono-constituent substance |

This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the substance described in line with the Substance Identification requirements of REACH Annex VI and relevant guidance for the purpose of identifying the registered substance and the provision of a 'boundary composition' for IUCLID 6 dossier updates.

| Reference | SI Parameter | Value / Not necessary / Not for SIP | Remark / Justification |
|--------------|--|---|--|
| 2.1.A | Name or other Identifiers of the substance | | |
| | CAS (hydrates) | n/a | |
| | Synonyms | Ferric (III) pyrophosphate | |
| | SMILES | [O-]P(=O)([O-])OP(=O)([O-])[O-].[O-]P(=O)([O-])OP(=O)([O-])[O-].[O-]P(=O)([O-])OP(=O)([O-])[O-].[Fe+3].[Fe+3].[Fe+3].[Fe=3] | |
| | Molecular formula | Fe ₃ /4H ₄ O ₇ P ₂ or Fe ₄ O ₂₁ P ₆ | |
| | Structural image / diagram (indicative) | | |
| | EU food legislation number / INS n° | n/a | |
| | State / form | Solid: Particulate / Powder | |
| | Granulometry range | | The substance is considered to be inhalable. Nano forms (in accordance with COMMISSION REGULATION (EU) 2018/1881 of 3 December 2018 on the definition of nanomaterial) have not been identified. |
| | pH range for aqueous solutions | pH 3.0 to 5.0 at 0° and 10g/l slurry | |
| 2.1.B | Substances (with core identifiers) also falling under this substance (with justification) | | |
| | Name or other Identifiers of the | Not applicable | |



| | | | |
|--------------|---|-------------------------------|--|
| | substance | | |
| | EC Number | | |
| | CAS number | | |
| | Additional information | | |
| 2.3 | Chemical Composition of the substance | | |
| 2.3.1 | Main Constituent | | |
| | Name | Tetrairon tris(pyrophosphate) | |
| | Typical concentration (%w/w) | 97% | |
| | Concentration range (%w/w) | 95-c.100% | |
| 2.3.2 | Typical Impurity / Impurities (above 1% or lower if contributing to the hazard or PBT profile) | | |
| 2.3.2.1 | Name -Impurity (1) | Sodium sulphate | |
| | CAS Number -Impurity (1) | 7757-82-6 | |
| | EC Number -Impurity (1) | 231-820-9 | |
| | Molecular Formula - Impurity (1) | H2O4S.2Na | |
| | Typical concentration (%w/w) -Impurity (1) | ≤3% | |
| | Concentration range (%w/w) -Impurity (1) | 0-3% | |
| | Relevant for classification and labelling? | N | |
| 2.3.2.2 | Name -Impurity (2) | Iron(III)orthophosphate | |
| | CAS Number -Impurity (2) | 10045-86-0 | |
| | EC Number -Impurity (2) | 233-149-7 | |
| | Molecular Formula - Impurity (2) | Fe.H3O4P | |
| | Typical concentration (%w/w) -Impurity (2) | ≤3% | |
| | Concentration range (%w/w) -Impurity (2) | 0-3% | |
| | Relevant for classification and labelling? | N | |
| 2.3.2.3 | Name -Impurity (3) | Tetrasodium pyrophosphate | |
| | CAS Number -Impurity (3) | 7722-88-5 | |
| | EC Number -Impurity (3) | 231-76-1 | |
| | Molecular Formula - Impurity (3) | Na4P2O7 | |



| | | | |
|--------------|--|---------|--|
| | Typical concentration (%w/w) -Impurity (3) | <1% | |
| | Concentration range (%w/w) -Impurity (3) | 0 - <1% | |
| | Relevant for classification and labelling? | N | |
| 2.3.3 | Additives | | |
| | Not relevant | | |
| 2.4 | Classification and labelling | | |
| | Not classified | | |
| 2.5 | Justification for deviation from substance identity rules | | |
| | Not applicable | | |