

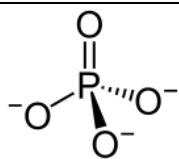
Inorganic Phosphates REACH Consortium

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|----------------|---|
| Version | SUBSTANCE IDENTIFICATION PROFILE (SIP) |
| v.4 | |
| 04/11/16 | |

| No | 1.1. Chemical Name | 1.2. EC Number | 1.3. CAS Number | 1.4. Composition Type |
|------|---|----------------|-----------------|-----------------------------|
| IP50 | Polyphosphoric acid (NON polymer grade) | 232-417-0 | 8017-16-1 | Multi-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 | Polyphosphoric acids, 72.5 to <80% P2O5 - Polyphosphoric acids, 100 -110% phosphoric acid | |
| | SMILES | n/a | |
| | Molecular formula | n/a | |
| | Structural image / diagram (indicative) | n/a | |
| | EU food legislation number / INS n° | n/a | |
| | State / form | liquid | Depending on method of particle size determination it cannot be excluded that the substance falls under the proposed horizontal EU nano definition from 2011, but since validated methodology is missing and a revision of the definition is expected, there is no way to confirm the status |
| | Granulometry range | n/a | |
| | pH range for aqueous solutions | pH = c.1,0 @ 1 g/l in water, 20°C | |
| 2.1.B | Substances (with core identifiers) also falling under this substance (with justification) | | |
| | Name or other Identifiers of the substance | Not applicable | |



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|--------------|--|----------------------|---|
| | EC Number | | |
| | CAS number | | |
| | Additional information | | |
| 2.3 | Chemical Composition of the substance | | |
| 2.3.1 | Constituent 1 | | |
| | Name | orthophosphoric acid | |
| | EC Number | 231-633-2 | |
| | CAS Number | 7664-38-2 | |
| | Molecular formula | H3O4P | |
| | Typical concentration (%w/w) | 39% | |
| | Concentration range (%w/w) | 17-76% | |
| | Constituent 2 | | |
| | Name | pyrophosphoric acid | |
| | EC Number | 219-574-0 | |
| | CAS Number | 2466 - 09-3 | |
| | Molecular formula | H4O7P2 | |
| | Typical concentration (%w/w) | 44% | |
| | Concentration range (%w/w) | 23-50% | |
| | Constituent 3 | | |
| | Name | triphosphoric acid | |
| | EC Number | 233-840-3 | |
| | CAS Number | 10380-08-2 | |
| | Molecular formula | H5O10P3 | |
| | Typical concentration (%w/w) | 15% | |
| | Concentration range (%w/w) | 1.5-25% | justification required for <10% refer to LR |
| | Constituent 4 | | |
| | Name | tetraphosphoric acid | |
| | EC Number | 237-476-6 | |
| | CAS Number | 13813-62-2 | |
| | Molecular formula | H6O10P4 | |
| | Typical concentration (%w/w) | 2% | |
| | Concentration range (%w/w) | 0-12% | justification required for <10% refer to LR |
| | Constituent 5 | | |
| | Name | pentaphosphoric acid | |
| | EC Number | 235-633-3 | |
| | CAS Number | 12395-97-0 | |
| | Molecular formula | H7O16P5 | |
| | Typical concentration | 0% | |



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|--------------|---|------|---|
| | (%w/w) | | |
| | Concentration range (%w/w) | 0-7% | justification required for <10% refer to LR |
| 2.3.2 | Typical Impurity / Impurities (above 1% or lower if contributing to the hazard or PBT profile) - create repeat blocks if necessary | | |
| 2.3.2.1 | Name -Impurity (1) | n/a | |
| 2.3.3 | Additives - create block similar to impurities if relevant | | |
| | Not relevant | | |
| 2.4 | Classification and labelling | | |
| | Yes- See ECHA Chem website | | |
| 2.5 | Justification for deviation from substance identity rules | | |
| | To be provided by lead registrant [CECA] | | |