

Inorganic Phosphates REACH Consortium

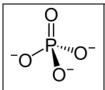
Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.4	` '
21/06/2023	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4.
				Composition
				Туре
IP24	Pentacalcium	235-330-6	12167-74-7	mono-
	hydroxide			constituent
	tris(orthophosphate)			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)	1306-06-5, 12167-74-7, 68439-86-1		
	Synonyms	Hydroxylapatite / Hydroxy Apatite, Calcium Hydroxide Phosphate, Pentacalcium Hydroxy Monophosphate, Tricalcium Phosphate (frequently used commercial name), Bone ash		
	SMILES	[OH-].[O-]P(=O)([O-])[O-].[O-].[O-]P(=O)([O-])[O-].[O-]P(=O)([O-])[O-].[Ca+2].[
	Molecular formula	Ca ₅ (PO ₄) ₃ OH or 10 CaO ₃ (P ₂ O ₅)H ₂ O or Ca5HO13P3		
	Structural image / diagram (indicative)	ar You go office you office		
	EU food legislation number / INS n°	E341iii	same as IP23	
	State / form	Solid: Particulate / Powder		

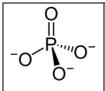




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	pH range for aqueous solutions	Up to 100% of particles have a diameter of <100μm. pH of solution in water solubility test was pH 7.2 - 7.4. pH of 10 % suspension acc. to DIN EN ISO 797-9: 7.5 - 10.5	The registration dossier will take into account the inhalation risk. Nanoforms of the substance have been identified and testing is ongoing, the dossier and SIP will be updated when the testing is concluded (expected for mid 2024).
2.1.B	Substances (with core ide		s substance (with justification)
	Name or other Identifiers of the substance EC Number CAS number Additional information	Hydroxylapatite, Bone ash 215-145-7, 270-423-5 1306-06-5, 68439-86-1	
2.3	Chemical Composition of	the substance	
2.3.1	Main Constituent		
	Name	Pentacalcium hydroxide tris(orthophosphate	
	Typical concentration (%w/w)	80%	
	Concentration range (%w/w)	>70 -100%	
2.3.2	create repeat blocks if ne		tributing to the hazard or PBT profile) -
2.3.2.1	Name -Impurity (1)	Calcium hydrogenorthophosphate	
	CAS Number -Impurity (1)	7757-93-9	
	EC Number -Impurity (1) Molecular Formula -	231-826-1 CaHPO4	
	Impurity (1)	Carroq	
	Typical concentration (%w/w) -Impurity (1)	ca. 3%	
	Concentration range (%w/w) -Impurity (1)	0 - 20%	
	Relevant for classification and labelling?	N	
2.3.3	Additives - create block si	 milar to impurities if relevant	
	, tallities of care widen of	Not relevant	





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2.4	Classification and labelling	
Not classified		
2 5	Justification for deviation from substance identity rules	

2.5 | Justification for deviation from substance identity rules
In accordance with ECHA Guidance for identification and naming of substances under REACH and CLP, version

1.4, when the concentration of the main constituent is <70% the following requirement(s) are met:1. The substance has been shown to have similar physico-chemical properties and the same hazard profile as

- 1. The substance has been shown to have similar physico-chemical properties and the same hazard profile as other mono-constituent substances with the same identity that fulfil the 80% rule. and/or
- 2. The range of concentrations for the main constituent and the impurities overlap the 80% criterion and the main constituent is only occasionally \leq 80%.