

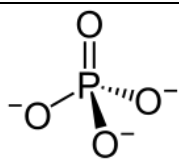
Inorganic Phosphates REACH Consortium

Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.4	
28/02/17	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP60	MDCP Calcium phosphate reaction mass	914-172-8		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	n/a	
	SMILES		
	Molecular formula	CaHPO ₄ ; Ca(H ₂ PO ₄) ₂	
	Structural image / diagram (indicative)	<p>Calcium bis(dihydrogenorthophosphate) Calcium hydrogenorthophosphate</p>	
	EU food legislation number / INS n°	n/a	
	State / form	solid	
	Granulometry range	>1.4mm : 5% max >0.2 mm: 5% max 0 % of particles have a diameter of <100 µm	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
	pH range for aqueous solutions	3 to 5	
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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2.3		Chemical Composition of the substance	
2.3.1		Constituent 1	
	Name	Calcium bis(dihydrogenorthophosphate)	
	EC Number	231-837-1	
	CAS Number	7758-23-8	
	Molecular formula	CaHPO4	
	Typical concentration (%w/w)	<75%	
	Concentration range (%w/w)	40-75%	
		Constituent 2	
	Name	calcium hydrogenorthophosphate	
	EC Number	231-826-1	
	CAS Number	7757-93-9	
	Molecular formula	CaHPO4	
	Typical concentration (%w/w)	<40%	
	Concentration range (%w/w)	10-40%	
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)	Pentacalcium hydroxide tris(orthophosphate)	
	CAS Number -Impurity (1)	12167-74-7	
	EC Number -Impurity (1)	235-330-6	
	Molecular Formula - Impurity (1)	Ca5(PO4)3OH	
	Typical concentration (%w/w) -Impurity (1)	<10%	
	Concentration range (%w/w) -Impurity (1)	> 0 < 10%	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	orthophosphoric acid	
	CAS Number -Impurity (2)	7664-38-2	
	EC Number -Impurity (2)	231-633-2	
	Molecular Formula - Impurity (2)	H3PO4	
	Typical concentration (%w/w) -Impurity (2)	<5%	
	Concentration range (%w/w) -Impurity (2)	>0 < 5%	
	Relevant for classification	N	



	and labelling?		
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		
	not applicable		