

Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.5	
13/06/2023	

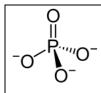
No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP21	Calcium bis(dihydrogen- orthophosphate)	231-837-1	7758-23-8	mono- constituent

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.

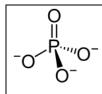
Reference	SI Parameter	Value / Not necessary / Not for	Remark / Justification	
2.1.A	SIP			
	CAS (hydrates)	10031-30-8, 65996-95-4		
	synonyms	Monocalcium Phosphate (MCP),		
		Monobasic Calcium Phosphate,		
		Triple Super Phosphate		
	SMILES	OP(=O)(O)[O-].OP(=O)(O)[O-].[Ca+2]		
	Molecular formula	Ca2(H2PO4)2 or Ca.2H3O4P or CaH4O8P2		
	Structural image / diagram (indicative)	но 1 ог но 1 ог он он он Са ²⁺		
		Ca ²⁺		
	EU food legislation number / INS n°	E341i		
	State / form	Solid: Particulate / Powder		
	Granulometry range	Ca. 100% of particles have a diameter of <100μm	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	The pH of the solution observed		
	solutions	in the water solubility study was pH 2.4		
2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		e (with justification)	



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	Name or other Identifiers of the substance	Not applicable	
2.3	Chemical Composition of the	substance	
2.3.1	Main Constituent		
2.3.1		Calaium	
	Name	Calcium bis(dihydrogenorthophosphate)	
	Typical concentration	80%	
	(%w/w)		
	Concentration range	70-100%	
	(%w/w)		
2.3.2	Typical Impurity / Impurities (above 1% or lower if contributing to the hazard or PBT pro		
	create repeat blocks if necess	sary	
2.3.2.1	Name - Impurity (1)	Calcium	
		hydrogenorthophosphate	
	CAS Number -Impurity (1)	7757-93-9	
	EC Number -Impurity (1)	231-826-1	
	Molecular Formula -	CaHPO4	
	Impurity (1)	450/	
	Typical concentration (%w/w) -Impurity (1)	<15%	
	Concentration range	≥0 < 15%	
	(%w/w) -Impurity (1)		
	Relevant for classification	N	
	and labelling?		
2.3.2.2	Name -Impurity (2)	Calcium sulphate	
	CAS Number -Impurity (2)	7778-18-9	
	EC Number -Impurity (2)	231-900-3	
	Molecular Formula -	Ca.H2O4S	
	Impurity (2)		
	Typical concentration	<10%	
	(%w/w) -Impurity (2)		
	Concentration range (%w/w) -Impurity (2)	≥0 < 10%	
	(%w/w) -impurity (2) Relevant for classification	N	
	and labelling?		
2.3.2.3	Name -Impurity (3)	Mineral phosphate rock	
	CAS Number -Impurity (3)	1306-05-4	
	EC Number -Impurity (3)	215-144-1	
	Molecular Formula -	N/A	
	Impurity (3)		
	Typical concentration	<10%	
	(%w/w) -Impurity (3)		
	Concentration range	≥0 < 10%	
	(%w/w) -Impurity (3)		
	Relevant for classification	N	
	and labelling?		



2.3.2.4	Name -Impurity (4)	Orthophosphoric acid	
	CAS Number -Impurity (4)	7664-38-2	
	EC Number -Impurity (4)	231-633-2	
	Molecular Formula -	НЗО4Р	
	Impurity (4)		
	Typical concentration	<5%	
	(%w/w) -Impurity (4)		
	Concentration range	≥0 < 10%	
	(%w/w) -Impurity (4)		
	Relevant for classification	N	
	and labelling?		
2.3.2.5	Name - Impurity (5)	Iron orthophosphate	
	CAS Number -Impurity (5)	10045-86-0	
	EC Number -Impurity (5)	233-149-7	
	Molecular Formula -	Fe.H3O4P	
	Impurity (5)		
	Typical concentration	<5%	
	(%w/w) -Impurity (5)	≥0 < 10%	
	Concentration range (%w/w) -Impurity (5)	20 < 10%	
	Relevant for classification	N	
	and labelling?		
2.3.2.6	Name - Impurity (6)	Magnesium Salts - various	Mixture of the following:
		mixture	- magnesium
	CAS Number -Impurity (6)		hydrogenorthophosphate
	EC Number -Impurity (6)		(EC 231-823-5)
	Molecular Formula -		- Magnesium
	Impurity (6)		hexafluorosilicate (EC 241-
	Typical concentration	<6%	— 022-2) -Magnesium bis
	(%w/w) -Impurity (6)	-	(dihydrogenorthophosphate
	Concentration range	≥0 < 10%) (EC 236-004-6)
	(%w/w) -Impurity (6)		
	Relevant for classification	N	
2.3.2.7	and labelling? Name -Impurity (7)	Aluminium orthophosphate	
2.3.2.7	CAS Number -Impurity (7)	7784-30-7	
	EC Number - Impurity (7)	232-056-9	
	Molecular Formula -	Al.3HO3P	
	Impurity (7)		
	Typical concentration	<2%	
	(%w/w) -Impurity (7)		
	Concentration range	≥0 < 2%	
	(%w/w) -Impurity (7)		
	Relevant for classification	N	
	and labelling?		
2.3.2.8	Name -Impurity (8)	Calcium carbonate	



	CAS Number -Impurity (8)	471-34-1	
	EC Number -Impurity (8)	207-439-9	
	Molecular Formula -	CaCO3	
	Impurity (8)		
	Typical concentration	<4%	
	(%w/w) -Impurity (8)		
	Concentration range	≥0 < 5%	
	(%w/w) -Impurity (8)		
	Relevant for classification	Ν	
	and labelling?		
2.3.2.9	Name -Impurity (9)	Other impurities	
	CAS Number -Impurity (9)	n/a	Includes Mineral insoluble
	EC Number -Impurity (9)	n/a	residues, and other minor
	Molecular Formula -	n/a	impurities
	Impurity (9)		
	Typical concentration	<2.5%	
	(%w/w) -Impurity (9)		
	Concentration range	≥0 < 2.5%	
	(%w/w) -Impurity (9)		
	Relevant for classification	Ν	
	and labelling?		
2.4	Classification and labelling		
	Ye	s - see ECHA Chem website	
2.5	Justification for deviation from substance identity rules		
		_	es under REACH and CLP, version
-	the concentration of the main con	•	
	stance has been shown to have si		•
	o-constituent substances with the	e same identity that fulfil the 80%	6 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%.