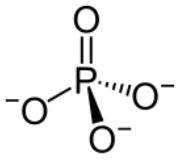

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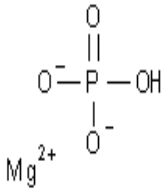
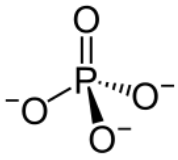
Version
v.4
13/06/2023

SUBSTANCE IDENTIFICATION PROFILE (SIP)

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP29	Magnesium hydrogenorthophosphate	231-823-5	7757-86-0	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)	7757-86-0; 7782-75-4; 38894-14-3; 161500-39-6	
	Synonyms	Dimagnesium Phosphate	
	SMILES	OP(=O)([O-])[O-].[Mg+2]	
	Molecular formula	MgHPO4 or H3O4P.Mg	
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	E343ii	
	State / form	Solid: Particulate / Powder	
	Granulometry range	Up to 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 solutions	The pH of the solution observed in the water solubility study was pH 7.4 - 7.6. pH of 10 % suspension acc. to	



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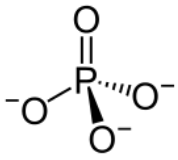
		DIN EN ISO 797-9: 5.0 - 8.0	
2.1.B	**Substances (with core identifiers) also falling under this substance (with justification)**		
	Name or other Identifiers of the substance	Not applicable	
	EC Number		
	CAS number		
	Additional information		
2.3	**Chemical Composition of the substance**		
2.3.1	**Main Constituent**		
	Name	Magnesium hydrogenorthophosphate	
	Typical concentration (%w/w)	80%	
	Concentration range (%w/w)	>70 - 100%	
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)	Magnesium bis(dihydrogenorthophosphate)	
	CAS Number -Impurity (1)	13092-66-5	
	EC Number -Impurity (1)	236-004-6	
	Molecular Formula -Impurity (1)	Mg3(PO4)2	
	Typical concentration (%w/w) -Impurity (1)	<15%	
	Concentration range (%w/w) -Impurity (1)	>0 <15%	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	Magnesium oxide	
	CAS Number -Impurity (2)	1309-48-4	
	EC Number -Impurity (2)	215-171-9	
	Molecular Formula -Impurity (2)	MgO	
	Typical concentration (%w/w) -Impurity (2)	<10%	
	Concentration range (%w/w) -Impurity (2)	>0 <10%	
	Relevant for classification and labelling?	N	
2.3.2.3	Name -Impurity (3)	Orthophosphoric acid	
	CAS Number -Impurity (3)	7664-38-2	
	EC Number -Impurity (3)	231-633-2	
	Molecular Formula -Impurity	H3O4P	



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	(3)		
	Typical concentration (%w/w) -Impurity (3)	<5%	
	Concentration range (%w/w) -Impurity (3)	0-5%	
	Relevant for classification and labelling?	N	
2.3.2.4	Name -Impurity (4)	Calcium hydrogenorthophosphate	
	CAS Number -Impurity (4)	7757-93-9	
	EC Number -Impurity (4)	231-826-1	
	Molecular Formula -Impurity (4)	Ca.H3O4P	
	Typical concentration (%w/w) -Impurity (4)	Ca. 3%	
	Concentration range (%w/w) -Impurity (4)	0-5%	
	Relevant for classification and labelling?	N	
2.3.3	**Additives - create block similar to impurities if relevant**		
Not relevant			
2.4	**Classification and labelling**		
Not classified			
2.5	**Justification for deviation from substance identity rules**		
not applicable			