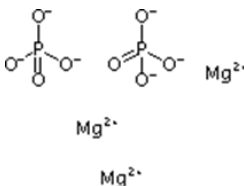




<b>Version</b>	<b>SUBSTANCE IDENTIFICATION PROFILE (SIP)</b>
v.4	
20/03/2020	
020	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP30	Trimagnesium bis(orthophosphate)	231-824-0	7757-87-1	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
<b>2.1.A</b>	<b>Name or other Identifiers of the substance</b>		
	CAS (hydrates)	13446-23-6, 10233-87-1	
	Synonyms	Trimagnesium phosphate Tribasic magnesium phosphate	
	SMILES	[O-]P(=O)([O-])[O-].[O-]P(=O)([O-])[O-].[Mg+2].[Mg+2].[Mg+2]	
	Molecular formula	Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> or H <sub>3</sub> O <sub>4</sub> P <sub>2</sub> .3/2Mg or Mg <sub>3</sub> O <sub>8</sub> P <sub>2</sub>	
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	INS 343iii	
	State / form	Solid: Particulate / Powder	
	Granulometry range	More than 95% of particles are <100µm in diameter	
	pH range for aqueous solutions	The pH of this solution observed in the water solubility study was pH 7.2 to 9.1	
<b>2.1.B</b>	<b>Substances (with core identifiers) also falling under this substance (with justification)</b>		
	Name or other Identifiers of the substance	Not applicable	
<b>2.3</b>	<b>Chemical Composition of the substance</b>		



2.3.1		Main Constituent	
	Name	Trimagnesium bis(orthophosphate)	
	Typical concentration (%w/w)	99%	
	Concentration range (%w/w)	95 - c.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 hydrogenorthophosphate	
	CAS Number -Impurity (1)	7757-86-0	
	EC Number -Impurity (1)	231-823-5	
	Molecular Formula - Impurity (1)	MgHPO <sub>4</sub>	
	Typical concentration (%w/w) -Impurity (1)	<5%	
	Concentration range (%w/w) -Impurity (1)	>0 < 5%	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	Pentacalcium hydroxide tris(orthophosphate)	
	CAS Number -Impurity (2)	1306-06-5	
	EC Number -Impurity (2)	235-330-6	
	Molecular Formula - Impurity (2)	Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> OH	
	Typical concentration (%w/w) -Impurity (2)	<2%	
	Concentration range (%w/w) -Impurity (2)	>0 < 2%	
	Relevant for classification and labelling?	N	
2.3.2.3	Name -Impurity (3)	Calcium hydrogenorthophosphate	
	CAS Number -Impurity (3)	7757-93-9	
	EC Number -Impurity (3)	231-826-1	
	Molecular Formula - Impurity (3)	CaHPO <sub>4</sub>	
	Typical concentration (%w/w) -Impurity (3)	<2%	
	Concentration range (%w/w) -Impurity (3)	>0 < 2%	
	Relevant for classification and	N	



	labelling?		
2.3.2.4	Name -Impurity (4)	other inorganic impurities	
	CAS Number -Impurity (4)		
	EC Number -Impurity (4)		
	Molecular Formula - Impurity (4)		
	Typical concentration (%w/w) -Impurity (4)	< 1 %	
	Concentration range (%w/w) -Impurity (4)	> 0 < 1%	
	Relevant for classification and labelling?	N	
<b>2.3.3</b>	<b>Additives - create block similar to impurities if relevant</b>		
	Not relevant		
<b>2.4</b>	<b>Classification and labelling</b>		
	Not classified		
<b>2.5</b>	<b>Justification for deviation from substance identity rules</b>		
	not applicable		