

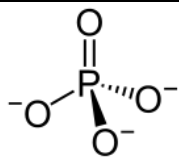
Inorganic Phosphates REACH Consortium

Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.3	
4/11/16	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP65	Polyphosphoric acids, ammonium salts (NON polymer grade)	269-789-9	68333-79-9	multi-constituent

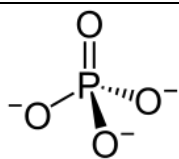
This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the substance described in line with the Substance Identification requirements of REACH Annex VI and relevant guidance for the purpose of identifying the registered substance and the provision of a 'boundary composition' for IUCLID 6 dossier updates.

Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.1.A	Name or other Identifiers of the substance		
	CAS (hydrates)		
	Synonyms	APP Ammonium Polyphosphate Polyphosphoric acids, ammonium salts, non-polymer grade, reaction mass of ammonium ortho-, pyro-, tri- and poly- phosphates	
	SMILES		
	Molecular formula	n/a	
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	n/a	
	State / form	liquid	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
	Granulometry range	n/a	
	pH range for aqueous solutions	pH of solutions in water solubility study was pH 6.4	



Inorganic Phosphates REACH Consortium

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 Constituent 1			
	Name	Ammonium dihydrogenorthophosphate	
	EC Number	231-764-5	
	CAS Number	7722-76-1	
	Molecular formula	H3N.H3O4P	
	Typical concentration (%w/w)		
	Concentration range (%w/w)	≥10% ≤ 20%	
Constituent 2			
	Name	diammonium hydrogenorthophosphate	
	EC Number	231-987-8	
	CAS Number	7783-28-0	
	Molecular formula	H9N2O4P	
	Typical concentration (%w/w)	<20%	
	Concentration range (%w/w)	≥10% ≤ 20%	
Constituent 3			
	Name	Triammonium hydrogen diphosphate	See *Remark 1
	EC Number	237-479-2	
	CAS Number	13813-81-5	
	Molecular formula	H4O7P2.3H3N	
	Typical concentration (%w/w)	60%	
	Concentration range (%w/w)	≤60%	
Constituent 4			
	Name	pentaammonium triphosphate	
	EC Number	238-741-9	
	CAS Number	14693-67-5	
	Molecular formula	H5O10P3.5H3N	
	Typical concentration (%w/w)	<20%	
	Concentration range (%w/w)	≥5% ≤ 20%	



Inorganic Phosphates REACH Consortium

Constituent 5			
	Name	Ammonium Polyphosphates chain length > 3	
	EC Number	n/a	
	CAS Number	n/a	
	Molecular formula	[NH ₄ PO ₃] _{>3}	
	Typical concentration (%w/w)	<10%	
	Concentration range (%w/w)	0-10%	
*Remark 1 - Alternative composition:			
Constituent 3a			
	Name	diammonium dihydrogen pyrophosphate	
	EC Number	237-059-9	
	CAS Number	13597-86-9	
	Molecular formula	H ₄ O ₇ P ₂ .2H ₃ N	
	Typical concentration (%w/w)	≤ 30%	
	Concentration range (%w/w)	>0 <30%	
Constituent 3b			
	Name	tetrammonium pyrophosphate	
	EC Number	237-371-5	
	CAS Number	13765-35-0	
	Molecular formula		
	Typical concentration (%w/w)	<30%	
	Concentration range (%w/w)	>0 <30%	
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)		
	CAS Number -Impurity (1)		
	EC Number -Impurity (1)		
	Molecular Formula - Impurity (1)		
	Typical concentration (%w/w) -Impurity (1)		
	Concentration range (%w/w) -Impurity (1)		
	Relevant for classification 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	