

DRAFT TABLE OF IDENTIFIED USES

SUBSTANCE	Hydroxyapatite; Pentacalcium hydroxide tris(orthophosphate) [TCP]
IP no.	24
EINECS	215-145-7; 235-330-6
CAS	1306-06-5; 12167-74-7
Classification	NOT Classified as hazardous according to Annex VI of REGULATION (EC) No 1272/2008

Lead Company: Chemische Fabrik Budenheim KG, Germany

If you have the same use than indicated, please confirm If you have any doubt, please consult the attached ECHA guidance
 If you have different uses, please select one from the dropdown list

Confirm	Titel / Description	Sector(s) of Use (SU)	Product Categories (PC)	Process Categories (PROC)	Environmental Release Categories (ERC)	Article Categories (AC)	COMMENTS
	ES1: Manufacture Manufacture of TCP	SU 8,9 - Manufacture of chemicals	not applicable	PROC 1 - Use in closed process, no likelihood of exposure PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sampling) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 1 - Manufacture of substances	not applicable	
	ES 2: Formulation and synthesis Use of TCP as intermediate (for chemical reactions) or for formulation (e.g. mixing, blending) of preparations/materials	SU 8,9 - Manufacture of chemicals SU10 - Formulation	PC19 - Intermediate PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents, other un-specific	PROC 1 - Use in closed process, no likelihood of exposure PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sampling) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 6 - Calendaring operations PROC 7 - Industrial spraying PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 1 - Manufacture of substances ERC 2 - Formulation of preparations ERC 3 - Formulation in materials ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles ERC 5 - Industrial use resulting in inclusion into or onto a matrix ERC 6A - Industrial use resulting in manufacture of another sub-stance (use of intermediates) ERC 6B - Industrial use of reactive processing aids ERC 6C - Industrial use of monomers for polymerisation ERC 6D - Industrial use of auxiliaries for polymerisation processes in production of resins, rubbers, polymers ERC 7 - Industrial use of substances in closed systems	not applicable	

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				PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelleti-sation PROC 19 - Hand-mixing with intimate contact and only PPE available.			
	ES 3: Laboratory chemical Use of TCP as laboratory chemical	SU3- Industrial uses SU22 - Professional uses SU24 - Scientific research and development	PC21 - Laboratory Chemicals	PROC 15 - Use as laboratory reagent	ERC 8A - Wide dispersive indoor use of processing aids in open systems ERC 8B - Wide dispersive indoor use of reactive substances in open systems ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix	not applicable	
	ES 4.1: Industrial or professional end use as - additive/pigment/auxiliary in plastics/resins/paints, - additive in lubricants, metal working fluids and greases, - stabilizer for EPS manufacturing, - absorbent, anti-caking agent, - raw material for glass, - coating systems on ceramic materials (glazes, coatings, oxidation protection etc.), - hardener for water glass	SU3- Industrial uses SU12 - Manufacture of plastics products, including compounding and conversion SU22 - Professional uses SU 8,9 - Manufacture of chemicals SU13 - Manufacture of other non-metallic mineral products, e.g. plasters, cement etc., SU19 - Building and construction work	PC0 - Other products, use UCN codes: see comments PC2 - Adsorbents PC9a - Coatings and Paints, Thinners, paint removers PC9b - Fillers, Putties PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents, other un-specific PC24 - Lubricants, Greases and Release Products PC25 - Metal Working Fluids PC32 - Polymer Preparations and Compounds	PROC 1 - Use in closed process, no likelihood of ex-posure PROC 2 - Use in closed, continuous process with oc-casional controlled exposure (e.g. sam-pling) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 6 - Calendering operations PROC 7 - Industrial spraying PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 11 - Non industrial spraying	ERC 3 - Formulation in materials ERC 5 - Industrial use resulting in inclusion into or onto a matrix ERC 8A - Wide dispersive indoor use of processing aids in open systems ERC 8B - Wide dispersive indoor use of reactive substances in open systems ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive outdoor use of reactive substances in open systems ERC 8F - Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC 9A - Wide dispersive indoor use of substances in closed systems ERC 9B - Wide dispersive outdoor use of substances in closed systems ERC 10A - Wide dispersive outdoor use of long-life articles and mate-rials with low release	AC 4 - Stone, plaster, cement, glass and ceramic articles AC 8-1 - Paper products: tissue, towels, disposable dinnerware, nappies, feminine hygiene products, adult incontinence products, writing paper AC 13-1 - Commercial/consumer plastic products like disposable dinner ware, food storage, food packaging, baby bottles AC 13-2 - Plastic products: Flooring AC 13-3 - Plastic products: Toys	UCN-Codes: H 15500, R 30200

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				PROC 13 - Treatment of articles by dipping and pour-ing	ERC 10B - Wide dispersive outdoor use of long-life articles and mate-rials with high or intended release		
				PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelleti-sation	ERC 11A - Wide dispersive indoor use of long-life articles and materials with low release		
				PROC 17 - Lubrication at high energy conditions and in partly open process	ERC 11B - Wide dispersive indoor use of long-life articles and materials with high or intended release		
				PROC 19 - Hand-mixing with intimate contact and only PPE available.			
				PROC 21 - Low energy manipulation of substances in form of massive metal or bound in other materials and/or articles			
				PROC 22 - Potentially closed processing operations with minerals/metals at elevated tempera-ture			
				PROC 23 - Open processing and transfer operations with minerals/metals at elevated tempera-ture			
				PROC 24 - High (mechanical) energy work-up of mas-sive metals or substances bound in materi-als and/or articles			
				PROC 26 - Handling of solid inorganic substances at ambient temperature			
	ES 4.2: Industrial or professional end use as -raw material for glass; -coating systems on ceramic materials (glazes, coatings, oxidation protection etc.); -hardener for water glass --> see ES 4.1						
	ES 4.3: Industrial or professional end use as - separating agent and lubricant for moulding applications; - brake liners	SU3- Industrial uses SU22 - Professional uses	PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents, other un-specific PC0 - Other products, use UCN codes: see comments	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelleti-sation PROC 18 - Greasing at high energy conditions PROC 21 - Low energy manipulation of substances in form of massive metal or bound in other materials and/or articles PROC 24 - High (mechanical) energy work-up of mas-sive metals or substances bound in materi-als and/or articles	ERC 5 - Industrial use resulting in inclusion into or onto a matrix ERC 8A - Wide dispersive indoor use of processing aids in open systems ERC 8B - Wide dispersive indoor use of reactive substances in open systems ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix	not applicable	UCN-Code: F 12000; UCN-Code: F 40000

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				PROC 25 - Other hot work operations with metals Welding, soldering, gouging, brazing, flame cutting	ERC 10A - Wide dispersive outdoor use of long-life articles and materials with low release		
	ES 4.4: Industrial or professional end use as - fertilizer	SU1 - Agriculture, forestry, fishery SU3- Industrial uses SU22 - Professional uses	PC12 - Fertilizers PC22 - Lawn and Garden Preparations, including fertilizers	PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 19 - Hand-mixing with intimate contact and only PPE available. PROC 26 - Handling of solid inorganic substances at ambient temperature	ERC 8B - Wide dispersive indoor use of reactive substances in open systems ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	TARIC CODE: see comments	TARIC 3101
	ES 4.5: Industrial or professional end use as/for - food additive, - cosmetics, - pharmaceuticals, - disinfectants	SU3- Industrial uses SU4 - Manufacture of food products SU20 - Health services SU22 - Professional uses	PC29 - Pharmaceuticals PC39 - Cosmetics, personal care products PC8 - Biocidal Products (e.g. Disinfectants, pest control) PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents, other un-specific PC15 - Non-metal-surface treatment products	PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sampling) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 6 - Calendering operations PROC 7 - Industrial spraying PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 13 - Treatment of articles by dipping and pouring PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC 16 - Using material as fuel sources, limited exposure to unburned product to be expected PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 2 - Formulation of preparations ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles ERC 8A - Wide dispersive indoor use of processing aids in open systems ERC 8B - Wide dispersive indoor use of reactive substances in open systems	not applicable	

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				PROC 22 - Potentially closed processing operations with minerals/metals at elevated temperature			
				PROC 26 - Handling of solid inorganic substances at ambient temperature			
	ES 5.1: Consumer end use as - fertilizer	SU1 - Agriculture, forestry, fishery SU21 - Consumer uses	PC12 - Fertilizers PC22 - Lawn and Garden Preparations, including fertilizers	not applicable	ERC 8B - Wide dispersive indoor use of reactive substances in open systems ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	TARIC CODE: see comments	TARIC 3101
	ES 5.2: Consumer end use - cosmetics, - disinfectants	SU21 - Consumer uses	PC39 - Cosmetics, personal care products PC8 - Biocidal Products (e.g. Disinfectants, pest control)	not applicable	ERC 8A - Wide dispersive indoor use of processing aids in open systems ERC 8D - Wide dispersive outdoor use of processing aids in open systems		