

SUBSTANCE Ammonium dihydrogenorthophosphate (MAP)  
 EC NUMBER 231-764-5  
 CAS NUMBER 7722-76-1  
 Lead Company PRAYON S.A.

NOT Classified as hazardous according to Annex VI of REGULATION (EC) No 1272/2008

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Description/ Title		Industrial	Professional	Consumer	Sector(s) of Use (SU)	Product Category(ies). (PC)	Process Category(ies) (PROC)	Environmental Release Category(ies) (ERC)	Article Category(ies). (AC)
Manufacturing of solid or liquid fertilizers,		X			SU 8,9 - Manufacture of chemicals	PC12 - Fertilizers	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 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 1 - Manufacture of substances	
Formulations of fertilizers including blending, packaging, dilution, loading/unloading and adding micronutrients and/or additives	Fe2.1 Fe2.2 Fe2.3 Fe2.4 Fe2.5 Fe3.2 Fe3.3	X	X		SU10 - Formulation	PC12 - Fertilizers	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 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) 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 13 - Treatment of articles by dipping and pouring PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	ERC 2 - Formulation of preparations	
Industrial or professional Formulations and synthesis (All types)		X	X		SU10 - Formulation SU 8,9 - Manufacture of chemicals SU3- Industrial uses (Manufacturing All) SU22 - Professional uses	PC19 - Intermediate PC1 - Adhesives, Sealants	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) PROC 11 - Non industrial spraying PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC 24 - High (mechanical) energy work-up of massive metals or substances bound in materials and/or articles PROC 25 - Other hot work operations with metals Welding, soldering, gouging, brazing, flame cutting	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 ERC 5 - Industrial use resulting in inclusion into or onto a matrix ERC 6A - Industrial use resulting in manufacture of another substance (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	

Flame retardant agent UCN B45000 for textiles, furnitures, wood, paper, matches, plastics & cellulose		X		SU3- Industrial uses (Manufacturing All)	PC0 - Other products (use UCN codes: see first column)	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 26 - Handling of solid inorganic substances at ambient temperature PROC 13 - Treatment of articles by dipping and pour-ing	ERC 2 - Formulation of preparations		
Fire extinguisher powder UCN B50000		X	X	SU3- Industrial uses (Manufacturing All)	PC0 - Other products (use UCN codes: see first column)	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 2 - Formulation of preparations	AC30 - Other articles with intended release of substances	
						PROC 3 - Use in closed batch process (synthesis or formulation)	ERC 8A - Wide dispersive indoor use of processing aids in open systems		
				SU22 - Professional uses		PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 8B - Wide dispersive indoor use of reactive substances in open systems		
						PROC 11 - Non industrial spraying	ERC 10B - Wide dispersive outdoor use of long-life articles and materials with high or intended release		
			X	SU21 - Consumer uses		PROC 26 - Handling of solid inorganic substances at ambient temperature Not applicable	ERC 11B - Wide dispersive indoor use of long-life articles and materials with high or intended release		
Professional end-use of solid fertilizer, outdoor, Surface spreading or incorporation at open field and /or forest fertilization. Fertilization of amenity (parks, public lawns, sport fields, golf courses)	Fe1.1		X	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 11 - Non industrial spraying	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems		
Liquid Fertilizers : Surface spreading or incorporation through pipes at open fields Fertilization of amenity (parks, publiclawns, sport fields, golf courses)	Fe1.3		X	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 13 - Treatment of articles by dipping and pour-ing	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems		
Liquid Fertilizers : Leaf spray at open field	Fe1.6		X	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems		
Liquid Fertilizers : Greenhouse applications	Fe1.7		X	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	ERC 8B - Wide dispersive indoor use of reactive substances in open systems		
Liquid Fertilizers : Fertigation at open field	Fe 1.8		X	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 2 - Use in closed, continuous process with oc-casional controlled exposure (e.g. sam-pling)	ERC 9B - Wide dispersive outdoor use of substances in closed sys-tems		
Consumer use of solid fertilizers : surface spreading at home gardens	Fe 1.2			X	SU21 - Consumer uses	PC12 - Fertilizers	Not applicable	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Consumer use of Liquid fertilizers : surface spreading at home gardens	Fe 1.4			X	SU21 - Consumer uses	PC12 - Fertilizers	Not applicable	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Consumer use of solid fertilizers : indoor home use	Fe 1.5			X	SU21 - Consumer uses	PC12 - Fertilizers	Not applicable	ERC 8B - Wide dispersive indoor use of reactive substances in open systems	
Nutrient for yeast and in many fermentation processes in food and pharmaceutical sectors (UCN 42300)		X		SU4 - Manufacture of food products	PC0 - Other products (use UCN codes: see first column)	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	ERC 7 - Industrial use of substances in closed systems		
Purification of sugar									
manufacture of frits for enamel (UCN G15000)		X		SU 0 - Other NACE Code	PC0 - Other products (use UCN codes: see first column)	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 2 - Formulation of preparations		
				NACE Code C23.3 Manufacture of clay building materials NACE C23.4 Manufacture of other porcelein and ceramic products			PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)		ERC 5 - Industrial use resulting in in-clusion into or onto a matrix
							PROC 22 - Potentially closed processing operations with minerals/metals at elevated tempera-ture		ERC 10A - Wide dispersive outdoor use of long-life articles and mate-rials with low release
							PROC 23 - Open processing and transfer operations with minerals/metals at elevated tempera-ture		ERC 11A - Wide dispersive indoor use of long-life articles and materials with low release
binder in refractory bricks, tiles [UCN code B20300: Other binding agents]			X	SU3- Industrial uses (Manufacturing All)	PC10 - Building and construction preparations not covered elsewhere	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 2 - Formulation of preparations		

						PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)		
Flux for soldering Manufacture of metal products, electronic and electrical equipment			x	SU3- Industrial uses (Manufacturing All)	PC38 - Welding and soldering products, flux products	PROC 1 - Use in closed process, no likelihood of exposure	ERC 3 - Formulation in materials	AC 3-2 - Electrical batteries and
					PC7 - Base metals and alloys	PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sampling)	ERC 5 - Industrial use resulting in inclusion into or onto a matrix	
				SU10 - Formulation		PROC 3 - Use in closed batch process (synthesis or formulation)	ERC 8B - Wide dispersive indoor use of reactive substances in open systems	
				SU15 - Manufacture of fabricated metal products, except machinery and equipment		PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix	
				SU16 - Manufacture of computer, electronic and optical products, electrical equipment		PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 8D - Wide dispersive outdoor use of processing aids in open systems	
						PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	ERC 11A - Wide dispersive indoor use of long-life articles and materials with low release	
						PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities		
		PROC 22 - Potentially closed processing operations with minerals/metals at elevated temperature						
				PROC 23 - Open processing and transfer operations with minerals/metals at elevated temperature				
					PROC 25 - Other hot work operations with metals Welding, soldering, gouging, brazing, flame cutting			
Manufacture of MAP (to be mentioned in method of manufacture description part 3.1. of IUCLID V)		x		SU 8,9 - Manufacture of chemicals	not applicable	PROC 1 - Use in closed process, no likelihood of exposure	ERC 1 - Manufacture of substances	
						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-		
						PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at		
						PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)		
Dental Investment Casting Material		x	x	SU9 - Manufacture of fine chemicals	PC0 - Other Products (UCN code: B20000 Binding products)	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 2 - Formulation of preparations	
				SU13 - Manufacture of other non-metallic mineral products, e.g. plasters, cement		PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	ERC 5 - Industrial use resulting in inclusion into or onto a matrix	
				SU22 - Professional uses		PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-	ERC 8A - Wide dispersive indoor use of processing aids in open systems	
				SU20 - Health services		PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at		
						PROC 21 - Low energy manipulation of substances in form of massive metal or bound in other materials and/or articles		

Manufacture of Ammonium polyphosphates , Flame retardants, Paints and Coatings, Wild Fire eraser					SU 8,9 - Manufacture of chemicals	PC9a - Coatings and Paints, Thinners, paint removers	PROC 3 - Use in closed batch process ( synthesis or formulation)	ERC 1 - Manufacture of substances		
							PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles ( multistage and/or significant contact)	ERC 2 - Formulation of preparations		
							PROC 7 - Industrial spraying	ERC 3 - Formulation in materials		
						PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 6C - Industrial use of monomers for polymerisation			
						PC32 - Polymer Preparations and Compounds	PROC 3 - Use in closed batch process ( synthesis or formulation)	ERC 1 - Manufacture of substances		
							PROC 2 - Use in closed, continuous process with oc-casional controlled exposure ( e.g. sam-pling)			
					SU5 - Manufacture of textiles, leather, fur	PC23 - Leather tanning, dye, finishing, impregnation and care products	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles ( multistage and/or significant contact)	ERC 2 - Formulation of preparations	AC 6 - Leather products: apparel and upholstery	
					SU6 - Manufacture of pulp, paper and paper products	PC26 - Paper and board dye, finishing and impregna-tion products: including bleaches and other processing aids;	PROC 13 - Treatment of articles by dipping and pour-ing	ERC 5 - Industrial use resulting in in-clusion into or onto a matrix	AC 5-1 - Fabrics, textiles and apparel: bedding and clothing	
					SU5 - Manufacture of textiles, leather, fur	PC34 - Textile dyes, finishing and impregnating products; including bleaches and other proc-essing aids;	PROC 9 - Transfer of substance or preparation into small containers ( dedicated filling line, including weighing)			AC 5-2 - Fabrics, textiles and apparel: curtains, upholstery, carpeting/flooring , rugs,
							PROC 7 - Industrial spraying			
							PROC 10 - Roller application or brushing			
							PROC 13 - Treatment of articles by dipping and pour-ing			
SU12 - Manufacture of plastics products, including compounding and conversion	PC32 - Polymer Preparations and Compounds	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelleti-sation	ERC 3 - Formulation in materials							
SU3- Industrial uses	not applicable	PROC 2 - Use in closed, continuous process with oc-casional controlled exposure ( e.g. sam-pling)	ERC 1 - Manufacture of substances							
SU10 - Formulation	PC9a - Coatings and Paints, Thinners, paint removers	PROC 3 - Use in closed batch process ( synthesis or formulation)	ERC 1 , ERC 2 , ERC 3 , ERC 6C							
		PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles ( multistage and/or significant contact)								
		PROC 7 - Industrial spraying								
		PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)								
	PC32 - Polymer Preparations and Compounds	PROC 3 - Use in closed batch process ( synthesis or formulation)	ERC 1 - Manufacture of substances							
		PROC 2 - Use in closed, continuous process with oc-casional controlled exposure ( e.g. sam-pling)								

Use for washing and cleaning products		x	x	x	SU3- Industrial uses (Manufacturing All)	PC35 - Washing and Cleaning Products (including solvent based products)	PROC 3 - Use in closed batch process (synthesis or formulation)	ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles
					SU22 - Professional uses		PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 8A - Wide dispersive indoor use of processing aids in open systems
					SU21 - Consumer uses		PROC 7 - Industrial spraying	ERC 8B - Wide dispersive indoor use of reactive substances in open systems
							PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	ERC 8D - Wide dispersive outdoor use of processing aids in open systems
							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 pour-ing					
Use of MAP as laboratory chemical		x	x		SU3- Industrial uses (Manufacturing All)	PC21 - Laboratory Chemicals	PROC 15 - Use as laboratory reagent	ERC 8A - Wide dispersive indoor use of processing aids in open systems
					SU22 - Professional uses			ERC 8B - Wide dispersive indoor use of reactive substances in open systems
					SU24- Scientific research and development			ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix