

No	Product	Description of use (free text)	Example of relevant substances	Comments	Main use domain	Closed system/ Non dispersive / Wide dispersive use	Sector(s) of Use (SU)	Product Category(ies). (PC)	Process Category(ies) (PROC)	Environmental Release Category(ies) (ERC)	Article Category(ies). (AC)
<b>1 Use of Mineral Fertilizers</b>											
Fe1.1	Solid Fertilizers NPK/PK/NP/Straights/p hosphate fertilizer/potassium fertilizer	Surface spreading or incorporation at open field and /or forest fertilization. Fertilization of amenity (parks, public lawns, sport fields, golf courses)	All fertilizer salts including primary, secondary and micronutrient fertilizer substances such as for example: Ammonium nitrate Urea Monoammonium phosphate Monopotassium phosphate Urea phosphate Potassium sulphate Potassium nitrate Magnesium sulphate Micronutrients as sulphates or carbonates Sodium Borate / Colemanite Other additives (gypsum, talc etc) Coating substances Seed treated with fertilizer		SU 22 Professional	Wide dispersive use	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 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Fe1.2	Solid Fertilizers NPK/PK/NP/Straights/p hosphate fertilizer/potassium fertilizer	Surface spreading at home gardens	same as Fe 1.1		SU 21 Consumer	Wide dispersive use	SU21 - Private households (general public, consumers)	PC12 - Fertilizers	PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Fe1.3	Liquid fertilizers	Surface spreading or incorporation through pipes at open field Fertilization of amenity (parks, public lawns, sport fields, golf courses)	All fertilizer salts including primary, secondary and micronutrient fertilizer substances such as for example: Ammonia solution Ammonium nitrate Urea Monoammonium phosphate Monopotassium phosphate Urea phosphate Potassium sulphate Potassium nitrate Magnesium sulphate Chelated micronutrients Micronutrients in sulphate form		SU 22 Professional	Wide dispersive use	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 13 - Treatment of articles by dipping and pouring	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Fe1.4	Liquid fertilizers	Surface spreading at home gardens	same as Fe1.3		SU 21 Consumer	Wide dispersive use	SU21 - Private households (general public, consumers)	PC12 - Fertilizers	PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Fe1.5	Liquid fertilizers	Indoor home fertilizer use	same as Fe1.3		SU 21 Consumer	Dispersive use	SU21 - Private households (general public, consumers)	PC12 - Fertilizers	PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 8B - Wide dispersive indoor use of reactive substances in open systems	

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Fe1.6	Liquid foliar fertilizers	Leaf spray at open field	same as Fe1.3		SU 22 Professional	Wide dispersive use	SU1 - Agriculture, forestry, fishery SU10 - Formulation	PC12 - Fertilizers	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) 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	
Fe1.7	Liquid fertilizers	Greenhouse applications	same as Fe1.3 including acid and base	Including pH regulation and fertilizing	SU 22 Professional	Non dispersive use	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	
Fe1.8	Liquid fertilizers	Fertigation at open field	same as Fe1.3		SU 22 Professional	Non dispersive use	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sam-pling)	ERC 9B - Wide dispersive outdoor use of substances in closed systems	
Fe1.9	Ammonia gas	Incorporation into soil	Ammonia		SU 22 Professional	Non dispersive use	SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sam-pling) 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 9B - Wide dispersive outdoor use of substances in closed systems	
<b>2 Handling, blending, loading/unloading and packaging of mineral fertilizers</b>											
Fe2.1	Solid Fertilizers NPK/PK/NP/Straights/phosphate fertilizer/potassium fertilizer	Blending of fertilizer and other compounds as compost and substrates and pesticides	same as Fe 1.1	NACE Code C20.1.5 - Manufacture of fertilisers and nitrogen compounds	SU 22 Professional/ SU 3 Industrial	Non dispersive use	SU10 - Formulation		PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sam-pling) PROC 3 - Use in closed batch process (synthesis or formulation)	ERC 2 - Formulation of preparations	
Fe 2.2	Solid Fertilizers NPK/PK/NP/Straights/phosphate fertilizer/potassium fertilizer	Packaging of fertilizer	same as Fe 1.1	NACE code N82.9.2 - Packaging activities	SU 22 Professional/ SU 3 Industrial	Non dispersive use	SU10 - Formulation		PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sam-pling) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 2 - Formulation of preparations	

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Fe 2.3	Soluble liquid or solid fertilizer or suspension fertilizer	Dilution or suspension			SU 22 Professional / SU 3 Industrial	Non dispersive use	SU10 - Formulation		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 2 - Formulation of preparations	
Fe 2.4	Soluble liquid or solid fertilizer or suspension fertilizer	Dilution or suspension			SU 21 Consumer	Non dispersive use	SU10 - Formulation		PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	ERC 2 - Formulation of preparations	
Fe 2.5	Transfert loading/unloading of liquid and solid fertilizers	Loading / unloading			SU 22 Professional / SU 3 Industrial	Closed system	SU3- Industrial uses SU22- Professionnal uses		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 2 - Formulation of preparations	
Fe 2.6	Seed treatment	Treating or coating of seed with Fertilizer	Liquid Fertilizer same as Fe1.3		SU 22 Professional / SU 3 Industrial	Non dispersive use	SU10 - Formulation		PROC 13 - Treatment of articles by dipping and pour-ing	ERC 2 - Formulation of preparations	
Fe2.7		Cleaning and maintenance of equipment	same as Fe1.1		SU 22 Professional / SU 3 Industrial			PC12 - Fertilizers	PROC 3 - Use in closed batch process (synthesis or formulation) PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 8B - Wide dispersive indoor use of reactive substances in open systems or ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
Fe2.8		Collecting of empty big bags for recycling	same as Fe1.1		SU 22 Professional		SU1 - Agriculture, forestry, fishery	PC12 - Fertilizers	PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 8B - Wide dispersive indoor use of reactive substances in open systems or ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
<b>Manufacturing of mineral fertilizers, including maintenance or cleaning</b>											
Fe3.1		Manufacturing of solid or liquid mineral fertilizers	Ammonia, Nitric Acid, Phosphoric acid, Sulphuric acid, ...		SU 3 Industrial	Closed system	SU 8,9 - Manufacture of chemicals	PC19 - Intermediate	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)	ERC 1 - Manufacture of substances ERC 6A - Industrial use resulting in manufacture of another sub-stance (use of intermediates)	
Fe3.2		Manufacturing of solid or liquid or suspension mineral fertilizers	Ammonium nitrate, urea, KCl, K2SO4, magnesium sulphate / kieserite, Ammonium sulphate...		SU 3 Industrial	Non dispersive use	SU 8,9 - Manufacture of chemicals SU10 - Formulation	PC12 - Fertilizers	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	ERC 2 - Formulation of preparations	

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Fe3.3		Adding micronutrients and/or additives (anti-caking, fillers, coatings, colouring agent ...) in solid or liquid fertilizers	Micronutrients (for example sulphates, carbonates or Sodium Borate / Colemanite...) Additives (colorants, anti-caking, coatings, fillers, ...)	Open system	SU 3 Industrial	Non dispersive use	SU10 - Formulation		PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 3 - Use in closed batch process (synthesis or formulation)	ERC 2 - Formulation of preparations	
Fe3.4		Adding micronutrients and/or additives (anti-caking, fillers, coatings, colouring agent ...) in solid or liquid fertilizers	Micronutrients (for example sulphates, carbonates or Sodium Borate / Colemanite...) Additives (colorants, anti-caking, coatings, fillers, ...)	Closed system	Industrial	Closed system	SU10 - Formulation	PC12 - Fertilizers	PROC 2 - Use in closed, continuous process with occasional controlled exposure (e.g. sampling)	ERC 6A - Industrial use resulting in manufacture of another sub-stance (use of intermediates)	
Fe3.5		Cleaning and maintenance of equipment	same as Fe1.1		SU 22 Professional / SU 3 Industrial			PC12 - Fertilizers	PROC 3 - Use in closed batch process (synthesis or formulation) PROC 19 - Hand-mixing with intimate contact and only PPE available.	ERC 8B - Wide dispersive indoor use of reactive substances in open systems or ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	

Note : PROC not necessary to cover consumer use.