## **Proposal for SIEF**

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## **USES** with structure for CHESAR Assessment

NOTE: REACH requires the Chemical Safety Assessment to address ALL identified uses of a supply chain. The assessment shall consider all stages of the life-cycle of the substance resulting from the EU manufacture and identified uses.

## SUBSTANCE Potassium Sulfate Company Tessenderlo chemie

			USE DESCRIPTORS				
	Short ES title (free text)	Short description of process or activity within ES	Sector of Use (SU)	0 ,	Product Category (PC)	Article Category (AC)	Environmental Release Category (ERC)
	Industrial						
	Manufacturing						
	Manufacturing	a continuous process where	SU8 - Manufacture of bulk, large scale chemicals (including petroleum products)	and other process (synthesis) where opportunity for exposure			ERC 1 - Manufacture of substances
1		opportunity for exposure arises		arises			
	Use of K2SO4 by Industry - formulation	of preparations and articles					
2	formulation in preparations (fertilizers, plant protection products, extinguising powder,)	Formulation: batch process with exposure	SU3 - Industrial uses	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises			ERC 2 - Formulation of preparations
3	formulation in preparations (fertilizers, plant protection products, extinguising powder,)		SU3 - Industrial uses	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)			ERC 2 - Formulation of preparations
4	formulation in preparations (extinguising powder, paper & board dye)		SU3 - Industrial uses	PROC 3 - Use in closed batch process (synthesis or formulation)			ERC 2 - Formulation of preparations
5	Formulation in materials (construction materials, ceramics, abrasives,)		SU3 - Industrial uses	PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)			ERC 3 - Formulation in materials
	Use of K2SO4 by Industry - Synthesis in	nto another substance					
6	Intermediate		SU3 - Industrial uses	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	PC19 - Intermediate		ERC 6A - Industrial use resulting in manufacture of another sub-stance (use of intermediates)

	Distribution and other activities related	to the processes in industrial sett	tings			
	Distribution		SU3 - Industrial uses	PROC 8b - Transfer of		ERC 1 - Manufacture of
	3.64.1.544.611		and an acco	substance or preparation		substances
				(charging/discharging)		ERC 2 - Formulation of
		Transfer filling dedicated		from/to vessels/large		preparations
				containers at dedicated		ERC 3 - Formulation in
7				facilities		materials
	Distribution		SU3 - Industrial uses	PROC 9 - Transfer of		ERC 1 - Manufacture of
	Distribution		CCC Industrial docs	substance or preparation		substances
				into small containers		oubotai 1000
		Transfer filling small containers		(dedicated filling line,		ERC 2 - Formulation of
				including weighing)		preparations
				e.aage.gg/		ERC 3 - Formulation in
8						materials
	Q-control		SU3 - Industrial uses	PROC 15 - Use as		ERC 1 - Manufacture of
		Q-control in lab		laboratory reagent		substances
		Q control in lab				ERC 2 - Formulation of
9			1			preparations
	Storage (Industrial)		SU3 - Industrial uses	PROC 1 - Use in closed		ERC 1 - Manufacture of
				process, no likelihood of ex-		substances
		Storage		posure		ERC 2 - Formulation of
		Storage				preparations
						ERC 3 - Formulation in
10						materials
	Maintenance - Clean down		SU3 - Industrial uses	PROC 8a - Transfer of		ERC 1 - Manufacture of
				substance or preparation		substances
				(charging/discharging)		
		Maintenance - Clean down		from/to vessels/large		ERC 2 - Formulation of
						preparations
				Icontainers at non-dedicated		IDIEDALALIONS
				containers at non-dedicated facilities		ERC 3 - Formulation in
11						
11	Professional use					ERC 3 - Formulation in
11	Professional use Use of K2SO4 & formulations by Profes	ssionals				ERC 3 - Formulation in
11		ssionals				ERC 3 - Formulation in
11	Use of K2SO4 & formulations by Profes	ssionals	SU22 - Professional uses		PC12 - Fertilizers	ERC 3 - Formulation in
11	Use of K2SO4 & formulations by Profes Fertilizer use by professionals	ssionals	SU22 - Professional uses	facilities	PC12 - Fertilizers	ERC 3 - Formulation in materials
11	Use of K2SO4 & formulations by Profes Fertilizer use by professionals	ssionals	SU22 - Professional uses	facilities  PROC 11 - Non industrial	PC12 - Fertilizers	ERC 3 - Formulation in materials  ERC 8D - Wide dispersive
11	Use of K2SO4 & formulations by Profes Fertilizer use by professionals	ssionals  Fertilizer use - outdoor spraying	SU22 - Professional uses	facilities  PROC 11 - Non industrial	PC12 - Fertilizers	ERC 3 - Formulation in materials  ERC 8D - Wide dispersive outdoor use of processing aids
11	Use of K2SO4 & formulations by Profes Fertilizer use by professionals		SU22 - Professional uses	facilities  PROC 11 - Non industrial	PC12 - Fertilizers	ERC 3 - Formulation in materials  ERC 8D - Wide dispersive outdoor use of processing aids in open systems
11	Use of K2SO4 & formulations by Profes Fertilizer use by professionals		SU22 - Professional uses	facilities  PROC 11 - Non industrial	PC12 - Fertilizers	ERC 3 - Formulation in materials  ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive
11	Use of K2SO4 & formulations by Profes Fertilizer use by professionals		SU22 - Professional uses	PROC 11 - Non industrial spraying	PC12 - Fertilizers	ERC 3 - Formulation in materials  ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive outdoor use of reactive substances in open systems
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals		SU22 - Professional uses  SU22 - Professional uses	facilities  PROC 11 - Non industrial	PC12 - Fertilizers  PC12 - Fertilizers	ERC 3 - Formulation in materials  ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive outdoor use of reactive
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers			PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances		ERC 3 - Formulation in materials  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 8D - Wide dispersive outdoor use of processing aids
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers			PROC 11 - Non industrial spraying  PROC 26 - Handling of		ERC 3 - Formulation in materials  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 8D - Wide dispersive
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers	Fertilizer use - outdoor spraying		PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances		ERC 3 - Formulation in materials  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 8D - Wide dispersive outdoor use of processing aids in open systems
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers			PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances		ERC 3 - Formulation in materials  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 8D - Wide dispersive outdoor use of processing aids in open systems  ERC 8E - Wide dispersive  ERC 8E - Wide dispersive
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers	Fertilizer use - outdoor spraying		PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances		ERC 3 - Formulation in materials  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 8D - Wide dispersive outdoor use of processing aids in open systems  ERC 8D - Wide dispersive outdoor use of processing aids in open systems  ERC 8E - Wide dispersive outdoor use of reactive
122	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers	Fertilizer use - outdoor spraying		PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances		ERC 3 - Formulation in materials  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 8D - Wide dispersive outdoor use of processing aids in open systems  ERC 8E - Wide dispersive  ERC 8E - Wide dispersive
	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers  Fertilizers	Fertilizer use - outdoor spraying	SU22 - Professional uses	PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature	PC12 - Fertilizers	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 8D - Wide dispersive outdoor use of reactive substances in open systems  ERC 8D - Wide dispersive outdoor use of processing aids in open systems  ERC 8E - Wide dispersive outdoor use of reactive substances in open systems
122	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers	Fertilizer use - outdoor spraying		PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature  PROC 19 - Hand-mixing		ERC 3 - Formulation in materials  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 8D - Wide dispersive outdoor use of processing aids in open systems  ERC 8E - Wide dispersive outdoor use of processing aids in open systems  ERC 8E - Wide dispersive outdoor use of reactive substances in open systems  ERC 8A - Wide dispersive
122	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers  Fertilizers	Fertilizer use - outdoor spraying	SU22 - Professional uses	PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature  PROC 19 - Hand-mixing with intimate contact and	PC12 - Fertilizers	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 8D - Wide dispersive outdoor use of reactive substances in open systems  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 8A - Wide dispersive indoor use of processing aids
12	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers  Fertilizers	Fertilizer use - outdoor spraying  Fertilizer use - Surface spreading	SU22 - Professional uses	PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature  PROC 19 - Hand-mixing	PC12 - Fertilizers	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 8D - Wide dispersive outdoor use of processing aids in open systems  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 8A - Wide dispersive indoor use of processing aids in open systems
12	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers  Fertilizers	Fertilizer use - outdoor spraying	SU22 - Professional uses	PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature  PROC 19 - Hand-mixing with intimate contact and	PC12 - Fertilizers	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 8D - Wide dispersive outdoor use of processing aids in open systems  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 8A - Wide dispersive indoor use of processing aids in open systems  ERC 8B - Wide dispersive indoor use of processing aids in open systems
12	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers  Fertilizers	Fertilizer use - outdoor spraying  Fertilizer use - Surface spreading	SU22 - Professional uses	PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature  PROC 19 - Hand-mixing with intimate contact and	PC12 - Fertilizers	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 8D - Wide dispersive outdoor use of processing aids in open systems  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 8A - Wide dispersive indoor use of processing aids in open systems  ERC 8B - Wide dispersive indoor use of processing aids in open systems  ERC 8B - Wide dispersive indoor use of reactive
122	Use of K2SO4 & formulations by Profes Fertilizer use by professionals Fertilizers  Fertilizers	Fertilizer use - outdoor spraying  Fertilizer use - Surface spreading	SU22 - Professional uses	PROC 11 - Non industrial spraying  PROC 26 - Handling of solid inorganic substances at ambient temperature  PROC 19 - Hand-mixing with intimate contact and	PC12 - Fertilizers	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 8D - Wide dispersive outdoor use of processing aids in open systems  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 8A - Wide dispersive indoor use of processing aids in open systems  ERC 8B - Wide dispersive indoor use of processing aids in open systems

	Use as Plant protection product by prof	essionals					
15	Plant protection products	Professional use	SU22 - Professional uses	PROC 26 - Handling of solid inorganic substances at ambient temperature	PC27 - Plant Protection Products		ERC 8E - Wide dispersive outdoor use of reactive substances in open systems
	Use in Fire extinguishing powder by pro	ofessionals	•				
	Fire extinguishing powder		SU22 - Professional uses	PROC 26 - Handling of solid inorganic substances at ambient temperature	PC0 - Other products (use UCN codes: see last row)		ERC 8A - Wide dispersive indoor use of processing aids in open systems  ERC 8B - Wide dispersive
		Professional use					indoor use of reactive substances in open systems
16							ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive outdoor use of reactive substances in open systems
	Use in Construction materials by profes	ssionals					
17	Construction materials (plasterboards, concrete floor, binders, indoor screeds)	Professional use	SU22 - Professional uses	PROC 19 - Hand-mixing with intimate contact and only PPE available.	PC0 - Other products (use UCN codes: see last row)		ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix
	Transfer by professionals						
	Transfer of substance by professionals		SU22 - Professional uses	PROC 8a - Transfer of substance or preparation (charging/discharging)	PC12 - Fertilizers		ERC 8D - Wide dispersive outdoor use of processing aids in open systems
				from/to vessels/large containers at non-dedicated facilities	PC27 - Plant Protection Products		ERC 8E - Wide dispersive outdoor use of reactive substances in open systems
18					PC0 - Other products (use UCN codes: see last row)	AC 4 - Stone, plaster, cement, glass and ceramic articles	ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix
10	Transfer of substance by professionals		SU22 - Professional uses	PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	PC12 - Fertilizers  PC27 - Plant Protection Products		ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive outdoor use of reactive
19					PC0 - Other products (use UCN codes: see last row)	AC 4 - Stone, plaster, cement, glass and ceramic articles	substances in open systems  ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix
	Transfer of substance by professionals		SU22 - Professional uses	PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	PC12 - Fertilizers PC27 - Plant		ERC 8D - Wide dispersive outdoor use of processing aids in open systems ERC 8E - Wide dispersive
20					PC0 - Other products (use UCN codes: see last row)	AC 4 - Stone, plaster, cement, glass and ceramic articles	outdoor use of reactive substances in open systems  ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix

	Consumer use							
	Ise of K2SO4 & formulations by Consumers							
	Fertilizer use by consumers							
	Fertilizers	Fertilizer use - Surface spreading at home gardens outdoor, indoor home fertilizer use	SU21 - Consumer uses		PC12 - Fertilizers		ERC 8D - Wide dispersive outdoor use of processing aid in open systems  ERC 8E - Wide dispersive outdoor use of reactive substances in open systems  ERC 8A - Wide dispersive indoor use of processing aids in open systems  ERC 8B - Wide dispersive indoor use of reactive substances in open systems	
21	Use as Plant protection product by consumers							
22	Plant protection products	Consumer use	SU21 - Consumer uses		PC27 - Plant Protection Products		ERC 8E - Wide dispersive outdoor use of reactive substances in open systems	
	Use in Construction materials by consumers							
23		Consumer use	SU21 - Consumer uses		PC0 - Other products (use UCN codes: see last row)		ERC 8C - Wide dispersive indoor use resulting in inclusion into or onto a matrix	