

Version	Company	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.4	P-I236 AlFe REACH Consortium & SIEF	
13.03.2017	KEMIRA	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
	Dialuminium chloride pentahydroxide	234-933-1	12042-91-0	UVCB

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's for the purpose to identify the substance sufficiently to meet the REACH registration requirements under the same joint submission.

The content of this SIP is developed by KEMIRA, discussed and agreed upon within the Consortium PI236 Alu salts to the best of their knowledge to be used for the purpose of substance identification and sameness checking process in the (pre-)SIEF and as base for being part of the same joint registration dossier under REACH.

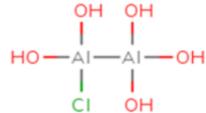
Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.1.A	Name or other Identifiers of the substance		
2.1.1.a	IUPAC Name	Dialuminium chloride pentahydroxide	Substance name in ESIS = dialuminium chloride pentahydroxide
2.1.1.b	Other International chemical name		
2.1.2.a	Chemical Name	Dialuminiumchloridpentahydroxid; Aluminum monochloride pentahydroxide; Chloropentahydroxydialuminium	Substance in category of soluble aluminium salts: Aluminium (hydroxy) chloride
2.1.2.b	Abbreviation	ACH	
2.1.2.c	Other names	Pentahydroxychlorure de dialuminium (French) (DSL, EINECS) Dialuminiumchloridpentahydroxid (German) (EINECS) pentahidroxicloruro de dialuminio (Spanish) (EINECS) Aluminum chlorhydrate (Al ₂ (OH) ₅ Cl) Aluminum chlorhydrate (Al ₂ (OH) ₅ Cl) INCI Name: Aluminum chlorhydrate	
2.1.3.a	EC Number	234-933-1	→ 
2.1.3.b	EC Name (Name in REACH-IT in Bold)	Dialuminium chloride pentahydroxide [Al ₂ Cl(OH) ₅];	
2.1.3.c	EC Description	Not available	
2.1.4.a	CAS Number	12042-91-0	
2.1.4.b	CAS Name	Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅)	
2.1.5.c	Other Catalogue identifiers	Regulatory List Number ECL Serial No.: KE-00909	Inventory Status On TSCA Inventory January 2009 TSCA Inventory. On DSL Supplement to Canada Gazette, Part I, January 26, 1991. On EINECS Annex to Official Journal of the European Communities, 15 June 1990. REACH: Intermediate List of Pre-Registered Substances, October 2008 Internet: echa.europa.eu. On AICS Australian Inventory of Chemical Substances, June 1996 Ed. On ECL Korean Existing Chemicals List, January 1997. On PICCS Philippines Inventory of Chemicals and Chemical Substances, 2000. On ASIA-PAC On NZIoC New Zealand Inventory of Chemicals, 2006.
2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		
2.1.9.aa	Chemical Name	Example 1: Aluminum Chlorohydrate Dihydrate (Al ₂ O ₃ H ₅ Cl.2H ₂ O)	
2.1.9.bb	EC Number	Covered as hydrate under EC 234-933-1	
2.1.9.cc	CAS Number		
2.2	Information related to molecular and structural formula of the substance		
2.2.1.a	Molecular Formula	General formula: Al(OH) _x (Cl) _(3-x) , with x between 2.3 and 2.6;	Specific formula Al(OH) _{2.5} Cl _{0.5} [= Al ₂ (OH) ₅ Cl] and 2-3 H ₂ O

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Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.2.1.b	Structural Formula	UVCB structure not available	for Al ₂ Cl(OH) ₅ 
2.2.1.c	Smiles notation	Not available for UVCB	[Al]([Al](O)(O)Cl)(O)(O)O for Al ₂ Cl(OH) ₅
2.2.3.b	Molecular Weight range	130 - 175	
2.3	Chemical Composition of the substance		
2.3.1	Main Constituent		
2.3.1.a	Name -Main Constituent		Name - Main constituent being part of the Alu salts sub-category Aluminium (hydroxy) chlorides
2.3.1.b	CAS Number -Main Constituent		CAS Number - Main constituent being part of the Alu salts sub-category Aluminium (hydroxy) chlorides
2.3.1.c	EC Number -Main Constituent		EC Number - Main constituent being part of the Alu salts sub-category Aluminium (hydroxy) chlorides
2.3.1.d	Concentration range -Main Constituent - Lower value	80%	
2.3.1.e	Concentration range -Main Constituent - Upper value	100%	
2.3.1.f	Typical concentration -Main Constituent (= Degree of purity)		
2.3.2	Impurity / Impurities (above 1% or lower if contributing to the hazard or PTB profile)		
2.3.2.a	Agreed strategy for Impurity profile on SIP	No impurities which affects the hazard profile and classification should be present. In this SIP a substance with impurities is considered as the same substance under this Joint Submission Registration. This SIP covers trace metal impurities as defined under CEN 883/2004 standard for purity criteria (three types).	Under UVCB impurity profile is principally not relevant and up to the individual SIEF member to be covered in this registration and check possible impact on the C&L
2.3.3	Additive(s) (above 1% or lower if contributing to the hazard)		
2.3.3.a	Agreed strategy for Additives profile on SIP	No specific additives as such	
2.4	Substance sameness checking procedure		
2.4.1	Agreed Spectral data to be used	The salts are in liquid form and will be analyzed by Inductively Coupled Plasma spectroscopy (ICP) or by X-Ray Fluorescence (XRF) or by Atomic Absorption Spectroscopy (AAS).	Most salts are water soluble and will be analysed by the methods described in the European standards. Some products are sold in dry form. These products are amorphous and therefore can not be analysed by XRD. ICP: The equipment to be used should be able to analyse 50 elements; XRF: With this method all elements with atomic numbers above the one of Na can be assessed; AAS: This method shall only be used as a supporting method, as different lamps have to be used for each element analysed
2.4.2	Agreed Analytical Methods to be used	The methods described in the European Standards will be used for analyzing macro and micro constituents (EN 1302:1999; Titrimetry; AA, ICP, MS); For macro elements titrimetry, ICP or AA conform methods in EN-1302); For quantification of heavy metals (micro elements) ICP-MS is recommended (see EU standard 1302) as alternative for Atomic Absorption (AA) spectrometry and ICP (ICP - OES. Presence of possible trace amounts of organics will be analysed by TOC.	For quantification of substances, European Standard EN 1302 methods are recommended to be used, such as complexometric titration
2.5	Approval of the SIP		
2.5.1	Agreed approval method for the sameness checking procedure using this SIP (Consortium)		

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2.5.2	Agreed approval method for the sameness checking procedure using this SIP (SIEF)		

By signing or otherwise approving this Substance Information Profile (SIP), the Company declares that he agrees with the content and purpose of this Substance Identification Profile.

He agrees that his substance is to the best of his knowledge covered by the substance identity being described in this SIP for the purpose being sufficiently the same to meet the SIEF requirements and opting for the joint submission registration dossier to be created by the Lead Registrant in line with the REACH requirements.

If requested by the Lead Registrant, he agrees fulfilling the requirements for the SI Verification method of Section 2.4 and taking the appropriate follow-up actions consequently. He agrees that the results of the Verification method for the sameness checking procedure are binding. He understands and agrees to be fully responsible for the proper linkage of the substance to the REACH Registration dossier and informing of his supply chain on the safe use of his substance and fulfilling his REACH requirements accordingly.