

Version	Company	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.7	P-1236 AIFe REACH Consortium & SIEF	
13.03.2017	KEMIRA	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
	Aluminium chloride, basic	215-477-2	1327-41-9	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	Aluminium chloride, basic	Substance name in ESIS = Aluminum chloride, basis
2.1.1.b	Other International chemical name	Aluminum chloride, basic	
2.1.2.a	Chemical Name	Aluminium chloride, basic	Substance in category of soluble aluminium salts: Aluminium (hydroxy) chloride
2.1.2.b	Abbreviation	ACH	
2.1.2.c	Other names	Aluminum chloride hydroxide; Aluminium chlorohydroxide; Polyaluminium chloride; Aluminum chloride hydroxide; Aluminum chlorohydroxide; Aluminum chlorhydroxide; Aluminum chloride hydroxide oxide, basic; Aluminiumchlorid, basisch; cloruro de aluminio, básico; chlorure d'aluminium basique; Aluminium chlorohydrate	
2.1.3.a	EC Number	215-477-2	No Molecular structure is suggested; Molecular structure in ESIS is not correct.
2.1.3.b	EC Name (Name in REACH-IT in Bold)	Aluminium chloride, basic Polyaluminium chloride	
2.1.3.c	EC Description	Not available	
2.1.4.a	CAS Number	1327-41-9	
2.1.4.b	CAS Name	basic Aluminum chloride	
2.1.5.c	Other Catalogue identifiers	Regulatory List Number ECL Serial No.: KE-00907	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)		
2.1.7.a	Chemical Name (Name in REACH-IT in Bold)	Aluminium chloride hydroxide (AlCl ₂ OH); Aluminum chloride hydroxide; Aluminum dichloride hydroxide; Aluminum dichlorohydroxide;	Substance in category of soluble aluminium salts: Aluminium (hydroxy) chloride
2.1.7.b	EC Number	238-071-7 →	$Al^{3+}OH^{-} Cl^{-} Cl^{-}$
2.1.7.c	CAS Number	14215-15-7	
2.1.8.a	Chemical Name (Name in REACH-IT in Bold)	Aluminium chloride dihydroxide [AlCl(OH) ₂]; Aluminum chloride dihydroxide; Aluminum dihydroxy chloride; Dialuminum dichloride	Substance in category of soluble aluminium salts: Aluminium (hydroxy) chloride
2.1.8.b	EC Number	233-632-2 →	$Al^{3+}OH^{-} OH^{-} Cl^{-}$
2.1.8.c	CAS Number	10284-64-7	
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 ranging from > 0 to 2.3 ; <u>Anhydrous</u> Aluminium chloride (CAS 7446-70-0) is not a member of the soluble Al Salts sub-category	

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v.7	P-I236 AlFe REACH Consortium & SIEF	
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2.2.1.b	Structural Formula	Structural formula not available; Molecular structure in ESIS is not correct.	
2.2.1.c	Smiles notation	O[Al](O)O.O[Al](Cl)O.O.O	
2.2.3.b	Molecular Weight range	83.537 - 133.341	
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 and 881/2004 standards 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)		
2.5.2	Agreed approval method for the sameness checking procedure using this SIP (SIEF)		

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			<p><i>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.</i></p> <p><i>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.</i></p> <p><i>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.</i></p>