

Version	Company	SUBSTANCE IDENTIFICATION PROFILE (SIP)
V.7	P-I236 AlFe REACH Consortium & SIEF	
[12/12/2016]	KEMIRA	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
	Aluminium sulphate	233-135-0	10043-01-3	Mono-Constituent Substance

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 sulphate	
2.1.1.b	Other International chemical name	Aluminium sulfate, Aluminium sulphate	
2.1.2.a	Chemical Name	Aluminium sulfate	Substance in category of soluble aluminium salts: Aluminium sulphate
2.1.2.b	Abbreviation	AS	
2.1.2.c	Other names	Sulfuric acid, aluminum salt (3:2); Aluminum sulfate (2:3); Aluminum trisulfate; Aluminum(III) sulfate; Dialuminum trisulfate; Aluminiumsulfat; sulfato de aluminio; sulfato d'aluminium	
2.1.3.a	EC Number	233-135-0	
2.1.3.b	EC Name (Name in REACH-IT)	Aluminium sulphate	
2.1.3.c	EC Description	Not available	
2.1.4.a	CAS Number	10043-01-3	
2.1.4.b	CAS Name	Sulfuric acid, aluminum salt (3:2)	
2.1.5.c	Other Catalogue identifiers	ENCS No.: 1-25 ECL Serial No.: KE-01042 SWISS No.: G-1077	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 ENCS Japanese Gazette. Contained within class: Inorganic Compounds On AICS Australian Inventory of Chemical Substances, June 1996 Ed On ECL Korean Existing Chemicals List, January 1997. On SWISS Giftliste 1 (List of Toxic Substances 1), 31 May 1999. Toxic Category 4. On PICCS Philippines Inventory of Chemicals and Chemical Substances, 2000 On ASIA-PAC; On NZIoC New Zealand Inventory of Chemicals, 2006. This substance has HSNO approval.
2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		
2.1.9.aa	Chemical Name	Example 1: Sulfuric acid, aluminium salt (3:2), tetradecahydrate [Bruto formula Al ₂ (SO ₄) ₃ .14H ₂ O]	Substance in category of soluble aluminium salts: Aluminium sulphate For Hydrates the water free form should be registered. Other Hydrate substances for Aluminium Sulphate are possible
2.1.9.bb	EC Number	Covered as hydrate under EC 233-135-0	
2.1.9.cc	CAS Number	16828-12-9	
2.1.9.aaa	Chemical Name	Example 2: Aluminum sulfate hexahydrate [Bruto formula Al ₂ (SO ₄) ₃ .6H ₂ O] ;	
2.1.9.bbb	EC Number	Covered as hydrate under EC 233-135-0	
2.1.9.ccc	CAS Number	51306-13-9	
2.2	Information related to molecular and structural formula of the substance		
2.2.1.a	Molecular Formula	Al ₂ . 3/2 H ₂ O ₄ S Al ₂ (SO ₄) ₃	
2.2.1.b	Structural Formula	Not available	
2.2.1.c	Smiles notation	O=S([O-])([O-])=O.[O-]S(=O)([O-])=O.[O-]S(=O)([O-])=O.[Al+3].[Al+3]	
2.2.3.b	Molecular Weight range	342.14	
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 sulphates
2.3.1.b	CAS Number -Main Constituent		CAS Number - Main constituent being part of the Alu salts sub-category Aluminium sulphates

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Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.3.1.c	EC Number -Main Constituent		EC Number - Main constituent being part of the Alu salts sub-category Aluminium sulphates
2.3.1.d	Concentration range -Main Constituent - Lower value	80%	
2.3.1.e	Concentration range -Main Constituent - Upper value	100%	
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 878/2004 standards for purity criteria (three types).	
2.3.2.1.a	Name -Impurity (1)	Sulfuric acid	Aluminium / Sodium Sulphate (up to 1.5%)
2.3.2.1.b	CAS Number -Impurity (1)	7664-93-9	
2.3.2.1.c	EC Number -Impurity (1)	231-639-5	
2.3.2.1.e	Concentration range -Impurity (1)	0 - 10%	
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) or by X-Ray Diffraction (XRD) if solid crystalline.	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 RXD: On solid crystalline samples should be done. It gives an unambiguous identification of the crystals
2.4.2	Agreed Analytical Methods to be used	The European Standards will be used as much as possible for analyzing macro and micro constituents (EN 1302:1999; Titrimetry; AA, ICP, MS); 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). Possible presence of organic material 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)		

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 will inform the appropriate contact person (e.g. Lead Registrant) if he has new information that might affect the content of the SIP. He will inform the Lead Registrant if his substance might no longer meet the SIP Requirements or has a potential impact on the content of the Registration dossier.

This SIP is designed to and used by the Lead Registrants and SIEF Members to meet the substance sameness checking requirements in the SIEF. Parties will do its utmost best to settle possible conflicts between each other in good faith. If necessary an expert third party will be used to mediate between the parties up to a solution.

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.