v.2	Rare Earth REACH Consortium	SUBSTANCE IDENTIFICATION PROFILE (SIP)	
[date]	27th October 2017		
No	1.1. Chemical Name Cerium	1.2. EC Number 231-154-9	1.3. CAS Number 1.4. Composition Type 7440-45-1 Mono-Constituent Substance
This Substance I	dentification Profile (SIP) is developed to represent the Identification	parameters of the Substance described in line with the Subs	tance Identification requirements of REACH Annex VI and relevant
Reference 2.1.A	SI Parameter Name or other Identifiers of the substance	Value / Not necessary / Not for SIP	Remark / Justification
2.1.1.a 2.1.1.b	IUPAC Name Other International chemical name	cerium(3+)	
2.1.2.a	Chemical Name	cerium	
2.1.2.0 2.1.2.c	Other names		
2.1.3.a 2.1.3.b	EC Number EC Name	231-154-9 cerium	
2.1.3.c	EC Description	7440 45 1	
2.1.4.a 2.1.4.b	CAS Name	7440-40-1	
2.1.4.c 2.1.5.a	CAS Description IUBMB Number		
2.1.5.b	INCI Number		
2.1.8	Substances (with core identifiers) also falling under this substances	ance (with justification)	
2.1.6.a 2.1.6.b	Chemical Name EC Number		
2.1.6.c	CAS Number		
2.1.7.a 2.1.7.b	EC Number		
2.1.7.c	CAS Number	substance	
2.2.1.a	Molecular Formula	Ce	
2.2.1.0 2.2.1.c	Since notation		
2.2.2.a 2.2.2.b	Optical activity Typical ratio of (stereo) isomers		
2.2.3.a	Molecular Weight		
2.2.3.0 2.3	Molecular Weight range Chemical Composition of the substance		
2.3.1	Main Constituent	cerium	
2.3.1.b	CAS Number - Main Constituent	7440-45-1	
2.3.1.c 2.3.1.d	EC Number -Main Constituent Concentration range -Main Constituent	> 95% (w/w)	
2310	- Lower value	< 99% (14/14/)	
2.0.1.0	- Upper value		
2.3.1.f	Typical concentration -Main Constituent (= Degree of purity)	ca. 98.5% (w/w)	
2.3.2	Impurity / Impurities (above 1% or lower if contributing to the h	azard or PTB profile)	
2.3.2.1.a	Name -Impurity (1)	neodymium	
2.3.2.1.b 2.3.2.1.c	CAS Number -Impurity (1) EC Number -Impurity (1)	7440-00-8 231-109-3	
2.3.2.1.d	Molecular Formular -Impurity (1)	Nd > 0% (w/w)	
2.3.2.1.f	Concentration range -Impurity (1)	< 5% (w/w)	
2.3.2.1.g 2.3.2.1.h	Appical concentration -Impurity (1) Hazard -Impurity (1)	ca. 0.5% (w/w)	
2.3.2.1.a	Name -Impurity (2) CAS Number -Impurity (2)	praseodymium 7440-10-0	
2.3.2.1.c	EC Number -Impurity (2)	231-120-3	
2.3.2.1.d 2.3.2.1.e	Molecular Formular -Impurity (2) Concentration range -Impurity (2)	Pr > 0% (w/w)	
2.3.2.1.f	Concentration range -Impurity (2) Typical concentration -Impurity (2)	< 5% (w/w) ca. 0.5% (w/w)	
2.3.2.1.h	Hazard -Impurity (2)		
2.3.2.1.a 2.3.2.1.b	CAS Number -Impurity (3)	7439-91-0	
2.3.2.1.c	EC Number -Impurity (3) Molecular Formular -Impurity (3)	231-099-0 La	
2.3.2.1.e	Concentration range -Impurity (3)	> 0% (w/w)	
2.3.2.1.g	Typical concentration -Impurity (3)	ca. 0.5% (w/w)	
2.3.2.1.h 2.3.3	Hazard -Impurity (3) Additive(s) (above 1% or lower if contributing to the hazard)		
2.3.3.a	Agreed strategy for Additives profile on SIP		
2.4 2.4.1	Substance sameness checking procedure Agreed Spectral data to be used	Techniques that can be used for sameness checking:	Qualitative Analysis: X-Ray diffraction analysis (XRD) can be used to confirm the identity of the substance
2.4.2	Agreed Analytical Methods to be used	Techniques that can be used for elemental analysis and purity determination:	Quantitative Analysis: X-ray fluorescence analysis (XRF) and inductively coupled plasma (ICP) techniques can be used for elemental analysis
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 does to the best of his knowledge completely fall under the substance identity being represented by the SIP sections 2.1 up to 2.3 sufficient for the purpose of meeting the SIEF requirements and opting for the joint submission Registration dossier to be created by the lead registrant in line with the REACH requirements. He agrees to fulfil the requirements of the Verification Method described and agreed in the SIP Section 2.4 and takes the appropriate follow-up actions if the substance appears not to fall under the SIP agreed. He agrees that the final result of the Agreed Verification Method for sameness checking procedure is binding. He agrees that the will inform the Consortium via the Secretariat or the SIEF via the Lead registrant if he has (new) information that might change the content of this SIP or if his Substance is changed in the SIP acretite in decision.			
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.			