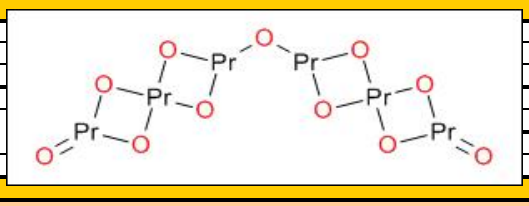
Version	
v.1	Rare Earth REACH Consortium
LR	Molycorp Silmet

SUBSTANCE IDENTIFICATION PROFILE (SIP)

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
	Praseodymium (III IV) oxide	234-857-9	12037-29-5	Mono-constituent

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 Guidances for the purpose to identify the substance

Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.1.A	**Name or other Identifiers of the substance**		
	IUPAC Name	Praseodymium (III IV) oxide	
	Other International chemical name		
	Chemical Name		
	Abbreviation		
	Other names		
	EC Number	234-857-9	
	EC Name	Praseodymium (III;IV) oxide	
	EC Description		
	CAS Number	12037-29-5	
	CAS Name	Praseodymium (III;IV) oxide	
	CAS Description		
	IUBMB Number		
	INCI Number		
	Other Catalogue identifiers		
2.1.B	**Substances (with core identifiers) also falling under this substance (with justification)**		
	Chemical Name		
	EC Number		
	CAS Number		
	Chemical Name		
	EC Number		
	CAS Number		
2,2	**Information related to molecular and structural formula of the substance**		
	Molecular Formula	O11Pr6	
	Structural Formula		
	Smiles notation		
	Optical activity		
	Typical ratio of (stereo) isomers		
	Molecular Weight	1021,44	
	Molecular Weight range		
2,3	**Chemical Composition of the substance**		
2.3.1	**Main Constituent**		
	Name -Main Constituent	Praseodymium (III IV) oxide	
	CAS Number -Main Constituent	12037-29-5	
	EC Number -Main Constituent	234-857-9	
	Concentration range -Main Constituent - Lower value	> 80%	
	Concentration range -Main Constituent - Upper value	100%	
	Typical concentration -Main Constituent (= Degree of purity)	> 99%	
2.3.2	**Impurity / Impurities (above 1% or lower if contributing to the hazard or PBT profile)**		
	All impurities > 1% are other inorganic oxides or other related inorganic substances, similar to the registered substance, which do not significantly affect its toxicological and ecotoxicological properties based on available data. No hazardous impurity at a concentration that would lead to a changed classification.		
2,4	Suggestions for analytical and spectral methods to be used for substance sameness check		
	Suggested spectral methods	XRF; XRD; ICP-OES; ICP-MS; AAS	
	Analytical method used		
2,5	Substance Sameness Approval		
	Name and Function		
	Signature		
	Date		



By 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 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 that he 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 such a way that it might or does no longer fall under the SIP or might potentially have an impact on the content of the Registration dossier. 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.