

| Version | | SUBSTANCE IDENTIFICATION PROFILE (SIP) |
|---------|-----------------------------|--|
| v.1 | Rare Earth REACH Consortium | |
| LR | Treibacher | |

| No | 1.1. Chemical Name | 1.2. EC Number | 1.3. CAS Number | 1.4. Composition Type |
|----|-------------------------------|----------------|-----------------|-----------------------|
| | Diammonium cerium(IV) nitrate | 240-827-6 | 16774-21-3 | 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 | Diammonium hexanitratocerate | |
| | Other International chemical name | Ceric ammonium nitrate, Cerium Ammonium nitrate, Ammonium Cerium (IV) nitrate, Ammonium ceric nitrate | |
| | Chemical Name | | |
| | Abbreviation | | |
| | Other names | | |
| | EC Number | 240-827-6 | |
| | EC Name | | |
| | EC Description | | |
| | CAS Number | 16774-21-3 | |
| | CAS Name | | |
| | 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 | (NH4)2Ce(NO3)6.nH2O | |
| | EC Number | | |
| | CAS Number | | |
| | Chemical Name | | |
| | EC Number | | |
| | CAS Number | | |
| 2.2 | Information related to molecular and structural formula of the substance | | |
| | Molecular Formula | (NH4)2Ce(NO3)6 | |
| | Structural Formula | | |
| | Smiles notation | | |
| | Optical activity | | |
| | Typical ratio of (stereo) isomers | | |
| | Molecular Weight | 548.22 | |
| | Molecular Weight range | | |
| 2.3 | Chemical Composition of the substance | | |
| 2.3.1 | Main Constituent | | |
| | Name -Main Constituent | Ceric Ammonium Nitrate | |
| | CAS Number -Main Constituent | 16774-21-3 | |
| | EC Number -Main Constituent | | |
| | Concentration range -Main Constituent - Lower value | 98% | |
| | 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) | | |
| | no impurities above 1% or contributing to the hazard or PBT profile | | |
| 2.3.3 | Additive(s) (above 1% or lower if contributing to the hazard) | | |
| | no additives above 1% or contributing to the hazard or PBT profile | | |
| 2.4 | Suggestions for analytical and spectral methods to be used for substance sameness check | | |
| | Spectral method used | X-Ray Diffraction (XRD) | |
| | 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.