

SASFORREACH Consortium
Information Letter 1
Synthetic Amorphous Sodium Aluminium Silicate (AS1)

Dear SIEF member

In this letter the Consortium would like to inform you in detail about the Substance Identification & Sameness for

Synthetic Amorphous Sodium Aluminium Silicate (AS1), EC # 215-475-1, CAS # 1327-36-2

Substance Name:

- **Aluminatesilicate**

Synthetic Amorphous Aluminatesilicate (CAS 1327-36-2) is a UVCB substance, thereof the Silica content is 80-99 w% and the Aluminium oxide content is 0.5-15 w%. Other constituents are Disodium oxide (CAS 1313-59-3) with a content of 0.1 – 1.5% and carbon (CAS 7440-44-0) with a content of 0.1 – 0.3 %.

Identification:

Aluminatesilicate (AS1) is predominantly characterised through the following methods of identification in IUCLID 5:

- Amorphous structure: X-ray diffraction (XRD)
X-ray diffraction diagrams of NAS using CuK α radiation with $\lambda = 0.1542$ nm, show only a broad halo, revealing an X-ray amorphous structure. The detection limit for crystallinity by X-ray is in the order of 0.3% by weight.
- Infrared spectroscopy (IR)
- nuclear magnetic resonance spectroscopy (NMR)

With kind regards

SASFORREACH Consortium representing Aluminatesilicate

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