

## SASFORREACH Consortium

### SIEF Information Letter 2 Synthetic Amorphous Sodium Aluminium Silicate (NAS): Substance Identification & Sameness

Dear SIEF member,

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

Synthetic Sodium Aluminum Silicate (NAS), EC # 215-684-8, CAS # 1344-00-9

#### Substance Name:

- **Silicic acid, aluminum sodium salt**

Silicic acid, aluminum sodium salt (CAS 1344-00-9) is a **UVCB substance**, with a purity of  $\geq 93$  w%

**Table 1: Impurities**

Impurities	Typical concentration	Remarks
sodium sulphate	$\leq 6\%$	CAS No. 7757-82-6
diiron trioxide	$\leq 500$ ppm	CAS No. 1309-37-1

#### Identification:

**Silicic acid, aluminum sodium salt** (NAS) 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  $\text{CuK}\alpha$  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 (ECETOC 2006).
- Infrared spectroscopy (IR)
- nuclear magnetic resonance spectroscopy (NMR)

With kind regards

SASFORREACH Consortium representing Sodium Aluminum Silicate (NAS)

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