**Product Data Sheet**

*(5N) 99.999% Halloysite Nanoclay*

**Product Code:** AL-SIAT-05-NCLAY

**Formula:** $\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$

**CAS No.:** 1332-58-7  
**EC No.:** 310-194-1  
**MDL:** MFCD00062311

### Chemical Identifiers

<table>
<thead>
<tr>
<th>Linear Formula</th>
<th>$\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL Number</td>
<td>MFCD00062311</td>
</tr>
<tr>
<td>EC No.</td>
<td>310-194-1</td>
</tr>
<tr>
<td>Beilstein Registry No.</td>
<td>N/A</td>
</tr>
<tr>
<td>Pubchem CID</td>
<td>56841936</td>
</tr>
<tr>
<td>IUPAC Name</td>
<td>oxo-oxoalumanyloxy-[oxo(oxoalumanyloxy)silyl] oxysilane; dihydrate</td>
</tr>
<tr>
<td>SMILES</td>
<td>$\text{O.O.O=[Al]}\text{O}<a href="%5Ctext%7B=O%7D">\text{Si}</a>\text{O}<a href="%5Ctext%7B=O%7D">\text{Si}</a>\text{O}[\text{Al}]=\text{O}$</td>
</tr>
<tr>
<td>Inchl Identifier</td>
<td>InChI=1S/2Al.O5Si2.2H2O.2O/c;1-6(2)5-7(3)4;;;;/h;;;;2<em>1H2;;;;;;;;q2</em>+1;2;;;;</td>
</tr>
<tr>
<td>Inchl Key</td>
<td>NLYAJNPOHFQWQ-UHFFFAOYSA-N</td>
</tr>
</tbody>
</table>

**Total Metal Impurities:** 0.001% max.

### Packaging Specifications

Typical bulk packaging includes palletized plastic 5 gallon/25 kg. pails, fiber and steel drums to 1 ton super sacks in full container (FCL) or truck load (T/L) quantities. Research and sample quantities and hygroscopic, oxidizing or other air sensitive materials may be packaged under argon or vacuum. Shipping documentation includes a Certificate of Analysis and Safety Data Sheet (SDS). Solutions are packaged in polypropylene, plastic or glass jars up to palletized 440 gallon liquid totes, and 36,000 lb. tanker trucks.
Documentation

A Certificate of Analysis and Materials Safety Data Sheet (SDS) in accordance with EN 10204 are supplied with every shipment.