Product Data Sheet

(2N) 99% Copper(II) phthalocyanine-tetrasulfonic Acid Tetrasodium Salt

Product Code: CU-PCYSN-02

**Formula:** $C_{32}H_{12}CuN_8O_{12}S_4 \cdot Na_4$

**CAS No.:** 27360-85-6

**EC No.:** 248-427-3

**MDL:** N/A

### Chemical Identifiers

<table>
<thead>
<tr>
<th>Linear Formula</th>
<th>MDL Number</th>
<th>EC No.</th>
<th>Beilstein Registry No.</th>
<th>Pubchem CID</th>
<th>IUPAC Name</th>
<th>SMILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>$C_{32}H_{12}CuN_8O_{12}S_4 \cdot Na_4$</td>
<td>N/A</td>
<td>248-427-3</td>
<td>9609904</td>
<td>16211777</td>
<td>N/A</td>
<td>C1=CC2=C(C=C1S(=O)(=O)[O-])C3=NC4=NC(=NC5=C6C=CC(=CC6=C([N-]5)N=C7C8=C(C=CC(=C8)S(=O)(=O)[O-])C(=N7)N=C2[N-]3)S(=O)(=O)[O-])C9=C4C=CC(=C9)S(=O)(=O)[O-].[Na+]•.[Na+]•.[Na+]•.[Na+]•.[Cu+2]</td>
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<tr>
<td>InchI Identifier</td>
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<td>9609904</td>
<td>16211777</td>
<td>N/A</td>
<td>InChI=1S/C32H16N8O12S4.Cu.4Na/c41-53(42,43)13-1-5-17-21(9-13)29-34-25(17)33-26-18-6-2-15(55(47,48)49)11-23(18)31(35-26)40- ... (56(50,51)52)4-8-20(24)28(39-32)38-30-22-10-14(54)4(40)46-1-29(27,26)22-30-35-32-30-22-10-14(54)4(40)46-1-29(27,26)22-30-</td>
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<td>InchI Key</td>
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<td>16211777</td>
<td>N/A</td>
<td>VKQSKQDKPZZMDU-UHFFFAOYSA-J</td>
</tr>
</tbody>
</table>

### Total Metal Impurities:

1.0% 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.