45350 Manganese Violet

Chemical Name: Manganese (III) Ammonium Pyrophosphate
Color Index: C.I. Pigment Violet 16 : 77742
C.A.S. No.: 10101-66-3
EINECS No.: 2-332-574

Specification:
Color scale (Brightened 1:5 with TiO2 in linseed oil against standard)
DL* max. ± 0.30 CIELab
DH* max. ± 1.00 CIELab
DC* max. ± 1.30 CIELab
DE* max. 1.50 CIELab
Screen oversize (45 µm) max. 0.10 %
Volatile parts (105°C) max. 1.00 %
Water soluble parts: max. 1.00 %

Typical Data:
Coloring strength: 73
Density: 2.70
Bulk density (g/cm³): 0.60
Oil value: 33.0
Average particle size (µm): 2.30

Fastness:
Temperature resistency (pigment in air): 250°C max.
Lightfastness, full shade (Xenon lamp and day light): excellent (7/8, BS 1006 Wollskala)
Light fastness, brightened: excellent (7/8, BS 1006 Wollskala)
Alkali fastness: weak
Acid resistency: good

Safety:
Acute oral toxicity: > 10 g/kg
Skin irritation: not irritating and not sensitizing
Eye irritation: not irritating
Exposure limits: 10 mg/m³ / 8 hrs. total inhalable dust
Ecology: not hazardous

Regulations:
Manganese violet corresponds to EN 71, part 3.
Heavy Metal Content:

<table>
<thead>
<tr>
<th>Element</th>
<th>mg/kg (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony Sb</td>
<td>&lt; 0,5</td>
</tr>
<tr>
<td>Arsenic As</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Barium Ba</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Cadmium Cd</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Chromium VI Cr</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Lead Pb</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Mercury Hg</td>
<td>&lt; 0,01</td>
</tr>
<tr>
<td>Selenium Se</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Nickel Ni</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>