Material Safety Data Sheet

According to 91/155/EEC and ISO 11014-1

Printing date: 2015/11/01

1. Identification of substance and of the company
   
   Trade Name: Pigment Red 49:1
   Hangzhou AiBai Chemical Co.,Ltd
   Room 2316,Building 17 Kaiyuan California Sunshine Plaza
   Xiaoshan Hangzhou China
   TEL: +86-571-22673158  FAX: +86-571-83885208

2. Composition/Data on components
   
   Substance: Pigment Red 49:1
   CAS No: 1103-38-4  EEC Symbol: None  R-Phrases: None

3. Hazards identification
   
   No hazardous effects known
   The product is not a substance subject to mandatory marking in accordance with the EEC Directive 67/584/EEC Or amendments

4. First Aid measures
   
   After inhalation: Supply fresh air.
   After eye contact: Flush with plenty of pressure water for 15 minutes, occasionally raising eye lids.
   After skin contact: Wash skin with mild soap and water.

5. Fire fighting measures
   
   Suitable extinguishing media: no restriction
   Special hazards caused by the material, its combustion products or resultant gases: none
   Special personal protection equipment: none

6. Accidental release
   
   Environmental protection conduct: Do not sweep or wash into public stretches of water, sewers or sites of unknown discharge paths.
   After spillage/leakage/gas/leakage:
   Clean up immediately with wetting or absorbent material avoiding dusting.

7. Handling and storage
   
   Handling:
   Usual precautions for nuisance dust should be observed.
   Protection against fire and explosion:
   The product is non-flammable
   Storage:
   Store in roofed places at room temperature Keep containers tightly sealed.
   Flammability Class: not applicable.

8. Exposure controls/personal protection
   
   Additional notes for design of plants equipment:
   No farther details, see sec7
   Components with workplace-related limits to be monitored:
   Designation  %  Type of data  Unit
   Nuisance dust  100  MAK  6 mg/m3
   TLV/TWA(USA)  10 mg/m3
   
   Personal protection equipment:
   Respiratory protection:
   An appropriate dust fixer has to be used if a breathable dust liberated.
Material Safety Data Sheet
According to 91/155/EEC and ISO 11014-1

Printing date: 2015/11/01

<table>
<thead>
<tr>
<th>Trade name: Pigment Red 49:1</th>
</tr>
</thead>
</table>

9. **Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Red powder</td>
</tr>
<tr>
<td>Odor</td>
<td>mild</td>
</tr>
<tr>
<td>Melting point</td>
<td>°C</td>
</tr>
<tr>
<td>Decomposition</td>
<td>None</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C₂₀H₁₄N₂O₄S</td>
</tr>
<tr>
<td>Tinting strength</td>
<td>95-105% of the standard</td>
</tr>
<tr>
<td>Soluble matter in water</td>
<td>1.5% max</td>
</tr>
<tr>
<td>Fastness to light</td>
<td>4-5</td>
</tr>
<tr>
<td>Melting point</td>
<td>°C</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.8-1.9</td>
</tr>
<tr>
<td>Flammability</td>
<td>see 5 handling</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>378.40</td>
</tr>
<tr>
<td>Decomposition</td>
<td>None</td>
</tr>
<tr>
<td>Flammable matter at 105°C</td>
<td>2.5% max</td>
</tr>
<tr>
<td>Oil absorption</td>
<td>45-55%</td>
</tr>
<tr>
<td>Fastness to heat</td>
<td>4-5</td>
</tr>
<tr>
<td>Bleeding resistance</td>
<td>Water: 4-5</td>
</tr>
<tr>
<td>Bleeding resistance acid</td>
<td>5</td>
</tr>
<tr>
<td>Bleeding resistance alcohol</td>
<td>3</td>
</tr>
<tr>
<td>Bleeding resistance ethyl acetate</td>
<td>4</td>
</tr>
</tbody>
</table>

10. **Stability and reactivity**

Hazardous decomposition products
No decomposition at proper storage and application conditions

11. **Toxicological Information**

Because of experience with product mentioned, there are no recognizable hazards for human beings, if it is correctly used and applied.

12. **Ecological information**

Avoid filtration into waste draining or soil.

13. **Disposal considerations**

Uses should acquaint themselves with local regulations.
Disposal is usually carried out by burying at an approved tip or by incineration by a licensed waste material processor; stack gases may need to be scrubbed (see section 5 above)

14. **Transport information**

No declaration for transport required.

15. **Regulatory information**

Classified according to the Directives 67/548/EEC, and their various amendments, and labeled as below:

- **Warning symbols:** None
- **Warning words:** None
- **Risk Phrases:** None
- **Safety Phrases:** None

16. **Other information**

Listed in EINECS and TSCA inventories.

Intended uses: Paints.

References:
- (1) Occupational Exposure Limits, EH/40(HSE)
- (2) Deutsche Forschungs gemeinschaft MAK-& BAT-Values.