Material Safety Data Sheet

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

Printing date: 2016/03/10

1. Identification of substance and of the company
   Trade Name: PIGMENT ORANGE 13
   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 Orange 13
   CAS No: 3468-63-1
   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: nor applicable.

8. Exposure controls/personal protection
   Additional notes for design of plants equipment:
   No farther details, see sec 7
   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.
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<table>
<thead>
<tr>
<th>Trade name:</th>
<th>PIGMENT ORANGE 13</th>
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<tbody>
<tr>
<td>9. Physical and chemical properties</td>
<td></td>
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<tr>
<td>Appearance: Orange powder</td>
<td>Odor: mild</td>
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<tr>
<td>Melting point: 332°C</td>
<td>Relative density: 1.31-1.6</td>
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<tr>
<td>Decomposition: None</td>
<td>Flammability: see handling</td>
</tr>
<tr>
<td>Molecular formula: C₃₂H₂₄Cl₂N₈O₂</td>
<td>Molecular Weight: 623.49</td>
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<tr>
<td>Tinting strength: 95-105% of the standard</td>
<td>Volatile matter at 105°C: 3.0% max</td>
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<td>Soluble matter in water: 2.0% max</td>
<td>Oil absorption: 45-55%</td>
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<tr>
<td>Fastness to light: 5</td>
<td>Fastness to heat (°C): 140</td>
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<tr>
<td>Bleeding resistance water: 4</td>
<td>Bleeding resistance linseed oil: 4-5</td>
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<tr>
<td>Bleeding resistance acid: 5</td>
<td>Bleeding resistance alkalis: 5</td>
</tr>
<tr>
<td>Bleeding resistance alcohol: 5</td>
<td>Bleeding resistance xylene: 3</td>
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<tr>
<td>Bleeding resistance ethyl acetate: 4</td>
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</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 waster 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 varions 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.0
Intended uses: Paints.
References: -(1)Occupational Exposure Limits, EH/40(HSE)
           -(2)Deutsche Forschungs gemeinschaft MAK-& BAT-Values.