Hangzhou AiBai Chemical Co., Ltd

Material Safety Data Sheet

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

Printing date: 2016/01/15

1. Identification of substance and of the company

Trade Name: PIGMENT BLUE 15:3
Hangzhou AiBai Chemical Co., Ltd
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Xiaoshan Hangzhou China
TEL: +86-571-22673158  FAX: +86-571-83885208

2. Composition/Data on components

Substance: Pigment Blue 15:3
CAS No: 147-14-8  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:

<table>
<thead>
<tr>
<th>Designation</th>
<th>%</th>
<th>Type of data</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuisance dust</td>
<td>100</td>
<td>MAK</td>
<td>6 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TLV/TWA(USA)</td>
<td>10 mg/m3</td>
</tr>
</tbody>
</table>

Personal protection equipment:
Respiratory protection:
An appropriate dust fixer has to be used if a breathable dust liberated.
9. **Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>blue powder</td>
</tr>
<tr>
<td>Melting point</td>
<td>480°C</td>
</tr>
<tr>
<td>Decomposition</td>
<td>None</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C₃₂H₁₆CuN₈</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>7-8</td>
</tr>
<tr>
<td>Flammability</td>
<td>see 7 handling</td>
</tr>
<tr>
<td>Decomposition</td>
<td>None</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.59</td>
</tr>
<tr>
<td>Volatile matter at 105°C</td>
<td>2.5% max</td>
</tr>
<tr>
<td>Oil absorption</td>
<td>34-85%</td>
</tr>
<tr>
<td>Fastness to heat (°C)</td>
<td>200</td>
</tr>
<tr>
<td>Bleeding resistance water</td>
<td>5</td>
</tr>
<tr>
<td>Bleeding resistance acid</td>
<td>5</td>
</tr>
<tr>
<td>Bleeding resistance alcohol</td>
<td>5</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.