1. **Identification of substance and of the company**

   **Trade Name:** Iron Oxide Yellow  
   SHENGHUA GROUP DEQING HUAYUAN PIGMENT CO., LTD.  
   Add: ZHONGGUAN, DEQING, ZHEJIANG, CHINA  
   Tel.: +86 572 8401598

2. **Composition/Data on components**

   **Chemical characterization:**  
   Synthetic iron oxide Fe$_2$O$_3$.H$_2$O ($\alpha$-FeooH), C. I. Pigment Yellow 42  
   CAS No: 20344-49-4  
   EINECS No: 243-746-4  
   Dangerous: 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 mins., 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 plant equipment: No further 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/m$^3$</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TLV/TWA(USA)</td>
<td>10 mg/m$^3$</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Area</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>odourless</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Change in physical state</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thermal Decomposition</strong></td>
<td>n.a.</td>
<td>°C</td>
<td>Lit.</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>not flammable</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flammable properties</strong></td>
<td>The product is not flammable under standardized conditions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explosion risks</strong></td>
<td>The product is not explosive</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>n.a.</td>
<td>mbar</td>
<td></td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>(200°C) 4.1</td>
<td>g/cm³</td>
<td>DIN/ISO 787 part 10</td>
</tr>
<tr>
<td><strong>Solubility in water</strong></td>
<td>(200°C) &lt;0.3</td>
<td>%</td>
<td>DIN/ISO 787 part 3</td>
</tr>
<tr>
<td><strong>pH-Value</strong></td>
<td>(at 100 g/l H2O) ca.3-7</td>
<td></td>
<td>DIN/ISO 787 part 9</td>
</tr>
</tbody>
</table>

10. **Stability and reactivity**

**Hazardous decomposition products**
No decomposition at proper storage and application conditions

11. **Toxicological Information**
Because of experiences with the product mentioned, there are no recognizable hazards for human beings, if it is correctly used and applied.

12. **Ecological information**
Avoid infiltration into water drainings or soil.

13. **Disposal considerations**

**Product:**
Dispose in accordance with federal, state and local regulations.

**Waste Code No.:**
Check re-use as alternative.

**Contaminated packages and containers:**
Emptied, but contaminated packages and containers may be recycled.

**Waste Code No.:** 18715 (Germany)

14. **Transport information**

**International:**
- **Land transport:** ADR/RID/GGVS/GGVE: Not Regulated
- **Sea transport:** IMDG/GGV See UN-No.: Not Regulated
- **Air transport:** ICAO/IATA UN/ID-No.: Not Regulated
- **U.S.:** D.O.T.CALIFICATION: Not Regulated
- **CANADA:** Transport of dangerous goods: Not Regulated

**DOT Shipping Name:** None
**Technical Shipping Name:** Inorganic Oxide
**DOT Hazardous Classification:** Non-Regulated. This product is not classed as a dangerous substance under the Classification, Packaging and Labeling of Dangerous Goods Act.
**DOT Hazard Class:** Non-Regulated.
**DOT Identification Number:** None
**DOT Labels required:** None
**DOT Placards required:** None. No specific transportation precautions required.
**UN Class:** None

15. **Regulatory information**
The product is not a substance subject to mandatory marking in accordance with the EEC Directive 67/548/EEC or amendments.

**Water risk class:** WGK 0 (Self-assessment, acc. to § 7a 19,19a-1 of German Water Utilization Act (WHG))

16. **Further information:**
Vertical markings at left margin denote alterations of previous issue.
The information contained herein is based on the present state of our knowledge, but without liability.

**Department issuing this data sheet:** Product safety department