



**Material Safety Data Sheet**  
**According to Regulation (EC) No 1907/2006, Annex II,**  
**Amended by Regulation (EU) No 2015/830**  
**According to Regulation (EC) No 1272/2008**  
**According to 91/155/EEC and ISO 11014-1**



<b>1. Identification of substance and of the company</b>			
<b>Trade Name: Iron Oxide Orange</b>			
ZHEJIANG HUAYUAN PIGMENT CO.,LTD. Add: ZHONGGUAN, DEQING, ZHEJIANG, CHINA Tel.: +86 572 8401598			
<b>2. Composition/Data on components</b>			
<b>Chemical characterization:</b> Synthetic iron oxide :Mixture of Fe <sub>2</sub> O <sub>3</sub> .αH <sub>2</sub> O and Fe <sub>2</sub> O <sub>3</sub> .H <sub>2</sub> O (α-FeooH), combination of C. I. Pigment 77491 and 77492			
<b>CAS No:</b> 1309-37-1, 51274-00-1/215-168-2,257-098-5			
<b>Einecs No:</b> 215-168-2, 243-746-4			
<b>Dangerous :</b> none			
<b>3. Hazards identification</b>			
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.			
<b>4. First Aid measures</b>			
<b>After inhaling:</b>	Supply fresh air		
<b>After eye contact:</b>	Flush with plenty of pressure water for 15 mins., occasionally raising eye lids.		
<b>After skin contact:</b>	Wash skin with mild soap and water		
<b>5. Fire fighting measures</b>			
<b>Suitable extinguishing media:</b> no restriction			
<b>Special hazards caused by the material, its combustion products or resultant gases:</b> none			
<b>Special personal protection equipment:</b> none			
<b>6. Accidental release</b>			
<b>Environmental protection conduct:</b> Do not sweep or wash into public stretches of water, sewers or sites of unknown discharge paths.			
<b>After spillage/leakage/gas leakage:</b> Clean up immediately with wetting or absorbent material avoiding dusting			
<b>7. Handling and storage</b>			
<b>Handling:</b> Usual precautions for nuisance dust should be observed.			
<b>Protection against fire and explosion:</b> The product is non-flammable			
<b>Storage:</b> Store in roofed places at room temperature. Keep containers tightly sealed.			
<b>Flammability Class:</b> not applicable			
<b>8. Exposure controls/personal protection</b>			
<b>Additional notes for design of plant equipment:</b> No further details, see sec. 7			
<b>Components with workplace-related limits to be monitored:</b>			
<b>Designation</b>	<b>%</b>	<b>Type of data</b>	<b>Unit</b>
Nuisance dust	100	MAK	6 mg/m <sup>3</sup>
		TLV/TWA(USA)	10 mg/m <sup>3</sup>
<b>Personal protection equipment:</b>			
<b>Respiratory protection:</b> An appropriate dust filter has to be used if a breathable dust is liberated.			



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**Trade name: Iron Oxide Orange**

**9. Physical and chemical properties**

form: powder  
 colour: orange  
 odour: odourless

	Value/Area	Unit	Method
<b>Change in physical state</b>			
<b>Thermal Decomposition:</b>	n.a.	°C	Lit.
<b>Flash point:</b> not flammable			
<b>Flammable properties:</b> The product is not flammable under standardized conditions.			
<b>Explosion risks:</b> The product is not explosive			
<b>Vapour pressure:</b>	n.a.	mbar	
<b>Density:</b> (200C)	4.1	g/cm3	DIN/ISO 787 part 10
<b>Solubility in water:</b> (200C)	<0.5	%	DIN/ISO 787 part 3
<b>pH-Value:</b> (at 100 g/l H <sub>2</sub> O) (200C)	ca.3.5-7		DIN/ISO 787 part 9

**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 waster 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.CLASSIFICATION: 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