



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



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Replaced issue dd.:---

1. Identification of substance and of the company

Trade Name: Iron Oxide Brown

ZHEJIANG HUAYUAN PIGMENT CO.,LTD.
Add: ZHONGGUAN, DEQING, ZHEJIANG, CHINA
Tel.: +86 572 8401598

2. Composition/Data on components

Chemical characterization:

Synthetic iron oxide : Mixture of $Fe_2O_3 \cdot \alpha H_2O$, $Fe_2O_3 \cdot H_2O$ and Fe_3O_4 , combination of C. I. Pigment 77491, 77492 and 77499

CAS No: 1309-37-1, 51274-00-1, 1317-61-9/215-168-2,257-098-5,215-277-5

Einecs No: 215-168-2, 243-746-4,215-277-5

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 inhaling: 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:

<u>Designation</u>	<u>%</u>	<u>Type of data</u>	<u>Unit</u>
Nuisance dust	100	MAK	6 mg/m ³
		TLV/TWA(USA)	10 mg/m ³

Personal protection equipment:

Respiratory protection:

An appropriate dust filter has to be used if a breathable dust is liberated.



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Trade name: Iron Oxide Brown

9. Physical and chemical properties

form: powder
 colour: brown
 odour: odourless

	Value/Area	Unit	Method
Change in physical state			
Thermal Decomposition:	n.a.	°C	Lit.
Flash point: not flammable			
Flammable properties: The product is not flammable under standardized conditions.			
Explosion risks: The product is not explosive			
Vapour pressure:	n.a.	mbar	
Density: (200C)	4.4 ~ 4.8	kg/l	DIN/ISO 787 part 10 B
Solubility in water: (200C)	<0.5	%	DIN/ISO 787 part 3
pH-Value: (at 100 g/l H ₂ O) (200C)	4 ~ 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