

## Material Safety Data Sheet

<p><b>1. <u>Identification of substance and of the company</u></b></p> <p><b>Trade Name: Iron Oxide Brown</b></p> <p>QINGDAO SANHUAN COLORCHEM CO.,LTD          Add: Room 2301, No.4 Building, Penglinanhua Business Plaza, No.12 Liaoyang East Road, Qingdao, China          Tel.: +86 532 88978177/88978188</p>												
<p><b>2. <u>Composition/Data on components</u></b></p> <p><b>Chemical characterization:</b>          Synthetic iron oxide : Mixture of Fe<sub>2</sub>O<sub>3</sub>.aH<sub>2</sub>O, Fe<sub>2</sub>O<sub>3</sub>.H<sub>2</sub>O and Fe<sub>3</sub>O<sub>4</sub>, combination of C. I. Pigment 77491, 77492 and 77499  <b>CAS No:</b> 1309-37-1 , 20344-49-4 and 1317-61-9  <b>Einecs No:</b> 215-168-2, 243-746-4,215-277-5  <b>Dangerous :</b> none</p>												
<p><b>3. <u>Hazards identification</u></b></p> <p>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.</p>												
<p><b>4. <u>First Aid measures</u></b></p> <p><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</p>												
<p><b>5. <u>Fire fighting measures</u></b></p> <p><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</p>												
<p><b>6. <u>Accidental release</u></b></p> <p><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</p>												
<p><b>7. <u>Handling and storage</u></b></p> <p><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</p>												
<p><b>8. <u>Exposure controls/personal protection</u></b></p> <p><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></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Designation</th> <th style="text-align: center; border-bottom: 1px solid black;">%</th> <th style="text-align: left; border-bottom: 1px solid black;">Type of data</th> <th style="text-align: left; border-bottom: 1px solid black;">Unit</th> </tr> </thead> <tbody> <tr> <td>Nuisance dust</td> <td style="text-align: center;">100</td> <td>MAK</td> <td>6 mg/m<sup>3</sup></td> </tr> <tr> <td></td> <td></td> <td>TLV/TWA(USA)</td> <td>10 mg/m<sup>3</sup></td> </tr> </tbody> </table> <p><b>Personal protection equipment:</b>  <b>Respiratory protection:</b>          An appropriate dust filter has to be used if a breathable dust is liberated.</p>	Designation	%	Type of data	Unit	Nuisance dust	100	MAK	6 mg/m <sup>3</sup>			TLV/TWA(USA)	10 mg/m <sup>3</sup>
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Nuisance dust	100	MAK	6 mg/m <sup>3</sup>									
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<b>9. <u>Physical and chemical properties</u></b>			
form:	powder		
colour:	brown		
odour:	odourless		
		<u>Value/Area</u>	<u>Unit</u>
<b>Change in physical state</b>			<u>Method</u>
<b>Thermal Decomposition:</b>		n.a.	°C
<b>Flash point:</b>	not flammable		Lit.
<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)	4.4 ~ 4.8	kg/l
<b>Solubility in water:</b>	(200C)	<0.5	%
<b>pH-Value:</b>	(at 100 g/l H <sub>2</sub> O)	(200C)	4 ~ 7
			DIN/ISO 787 part 10 B
			DIN/ISO 787 part 3
			DIN/ISO 787 part 9
<b>10. <u>Stability and reactivity</u></b>			
<b>Hazardous decomposition products</b>			
No decomposition at proper storage and application conditions			
<b>11. <u>Toxicological Information</u></b>			
Because of experiences with the product mentioned, there are no recognizable hazards for human beings, If it is correctly used and applied.			
<b>12. <u>Ecological information</u></b>			
Avoid infiltration into waster drainings or soil.			
<b>13. <u>Disposal considerations</u></b>			
<b>Product:</b>			
Dispose in accordance with federal, state and local regulations.			
<b>Waste Code No.:</b>			
Check re-use as alternative.			
<b>Contaminated packages and containers:</b>			
Emptied, but contaminated packages and containers may be recycled.			
<b>Waste Code No.:</b> 18715 (Germany)			
<b>14. <u>Transport information</u></b>			
<b>International:</b>			
<b>Land transport:</b>	ADR/RID/GGVS/GGVE:		Not Regulated
<b>Sea transport:</b>	IMDG/GGV See UN-No.:		Not Regulated
<b>Air transport:</b>	ICAO/IATA UN/ID-No.:		Not Regulated
<b>U.S.</b>	D.O.T.CLASSIFICATION:		Not Regulated
<b>CANADA</b>	Transport of dangerous goods:		Not Regulated
<b>DOT Shipping Name:</b> 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.			
<b>DOT Hazard Class:</b> Non-Regulated.			
<b>DOT Identification Number:</b> None			
<b>DOT Labels required:</b> None			
<b>DOT Placards required:</b> None. No specific transportation precautions required.			
<b>UN Class:</b> None.			
<b>15. <u>Regulatory information</u></b>			
The product is not a substance subject to mandatory marking in accordance with the EEC Directive 67/548/EEC or amendments.			
<b>Water risk class:</b> WGK 0 (Self-assessment, acc. to § § 7a 19,19a-1 of German Water Utilization Act (WHG))			
<b>16. <u>Further information:</u></b>			
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.			
<b>Department issuing this data sheet:</b> Product safety department			