



## SAFETY DATA SHEET

5570

SYNTHETIC IRON OXIDE - RED

### 1. Identification of substance/preparation and of the company undertaking

<b>Trade name:</b>	Synthetic Iron Oxide – Red
<b>Chemical Name:</b>	-
<b>Synonyms:</b>	Red Iron Oxide, Synthetic Red Iron Oxide

**Relevant identified uses:**

Substance used as such, in formulation or in formulation of products such as paints, ceramic colours, brick stains, concrete / cementitious applications.

**Uses advised against:**

None

### 2. Composition /information on ingredients

Component	CAS	EC No.	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Reg. No.
Iron Oxide	1309-37-1	-	>90	Not classified	Not classified	Exempt

### 3. Hazards Identification

<b>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</b>	Physical and chemical hazards: Not classified Human health: Not classified Environment: Not classified.
<b>Classification according to Directive 67/548/EEC (DSD)</b>	Not classified.
<b>Adverse physiochemical, human health and environmental effects</b>	No additional information available.
<b>Labelling according to Regulation (EC) No. 1272/2008 (CLP)</b>	No pictogram required.
<b>Other hazards:</b>	This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

### 4. First Aid Measures

<b>Inhalation</b>	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
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<b>Ingestion</b>	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
<b>Eyes</b>	Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.
<b>Skin</b>	Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Most important symptoms and effects, both acute and delayed:**

<b>Eye contact:</b>	No specific symptoms noted.
<b>Inhalation:</b>	No specific symptoms noted.
<b>Skin contact:</b>	No specific symptoms noted.
<b>Ingestion:</b>	No specific symptoms noted.

Indication of any immediate medical attention and special treatment needed:

<b>Notes to physician:</b>	Treat symptomatically.
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**5. Fire Fighting Hazards**

<b>Extinguishing media</b>	Powder, CO <sub>2</sub> , Sand.
<b>Fire Hazard</b>	Not flammable
<b>Explosion Hazard</b>	No explosive properties known.
<b>Reactivity</b>	Stable under normal conditions of handling and storage
<b>Protection during firefighting</b>	No specific firefighting procedures given.

**6. Accidental Release Measure**

<b>General measures</b>	Keep public away from danger area.
<b>Environmental precautions</b>	Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.
<b>Methods and material for containment and cleaning up</b>	Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

**7. Handling & Storage**

<b>Handling</b>	Do not breathe dust. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using.
<b>Packaging</b>	Even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packaging as if they were full. Avoid contact with this substance.
<b>Hygiene measures</b>	When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes.
<b>Storage conditions</b>	Store in a dry, cool, well-ventilated area. Keep away from food,



drink and animal feeding stuffs.

## 8. Exposure Control/Personal Protection

<b>Control parameters</b>	Chemical Name: Iron Oxide Country: United Kingdom STD: WEL (Workplace exposure limit) TWA – 8 hours: 5mg/m <sup>3</sup>
<b>Appropriate engineering controls</b>	Use as far as possible in a closed system. Provide a regular control of the atmosphere. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust and general ventilation must be adequate to meet exposure standards. Please refer to the annex (exposure scenarios).

### Individual protection measures, such as personal protective equipment:

<b>Eye/face protection:</b>	Wear safety glasses with side shields according EN 166.
<b>Hand protection:</b>	Use gloves resistant to chemical products corresponding to EN 743:3. Take advise to gloves' manufacturer.
<b>Skin and body protection:</b>	Wear closed protective clothing.
<b>Respiratory protection:</b>	Use respiratory protection mask according to EN 140 or EN 405 with filter type P3 according to EN 143:2000 or FFP3 according to EN149:2001.
<b>Environmental Exposure Controls:</b>	Avoid release to the environment.

## 9. Physical & Chemical Properties

<b>Physical state</b>	Fine powder
<b>Colour</b>	Red
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Not applicable
<b>pH</b>	5-8 (conc. (%w/w): 5%)
<b>Relative evaporation rate</b>	No data available
<b>Melting point (°C)</b>	> 1000°C
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	Not flammable
<b>Self-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Not flammable
<b>Vapour pressure</b>	Negligible
<b>Relative vapour density at 20°C</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	5 kg/l (20°C)
<b>Solubility</b>	Insoluble in water
<b>Log Pow</b>	Not applicable



<b>Log Kow</b>	Not applicable
<b>Viscosity, kinematic</b>	Not applicable
<b>Viscosity, dynamic</b>	Not applicable
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Non oxidising material according to EC criteria.
<b>Exposure limits</b>	Not applicable

## 10. Stability & Reactivity

<b>Reactivity</b>	No specific reactivity hazards associated with this product.
<b>Chemical stability</b>	Stable under normal conditions of handling and storage
<b>Possibility of hazardous reactions</b>	Not relevant.
<b>Conditions to avoid</b>	No specific conditions are likely to result in a hazardous situation.
<b>Incompatible materials</b>	No specific, or groups of materials, are likely to react to produce a hazardous situation.
<b>Hazardous decomposition products</b>	None under normal circumstances.

## 11. Toxicological Information

<b>Other health effects</b>	This substance has no evidence of carcinogenic properties.
<b>Acute toxicology</b>	Acute toxicity (Oral LD50): Rat > 5,000 mg/kg Acute toxicity (Dermal LD50): Not relevant. Acute toxicity (Inhalation LC50): Rat > 210 mg/m <sup>3</sup> . Exposure 2 weeks.
<b>Inhalation</b>	Dust in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Powder may irritate skin.
<b>Eye contact</b>	Particles in the eyes may cause irritation and smarting.

## 12. Ecological Information

<b>Acute fish toxicity</b>	Not considered toxic to fish.
<b>Persistence and degradability</b>	This product is not readily biodegradable.
<b>Bioaccumulative potential</b>	This product is not bioaccumulating.
<b>Mobility in soil</b>	Not relevant, due to the form of the product.
<b>Results of PBT and vPvB assessment</b>	This substance/mixture does not meet the PBT or vPvB criteria of REACH, annex XIII.
<b>Other adverse effects</b>	None known.

## 13. Disposal Considerations

<b>Waste treatment methods</b>	Dispose of this material and residues in accordance with local authority requirements.
<b>Additional information</b>	Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.
<b>Ecology – waste materials</b>	See the European waste catalogue.



#### 14. Transport Information

UN/SI No	The product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR/RID).
UN proper shipping name	Not classified for transportation.
Transport hazard classes	Not classified for transportation.
Packing group	Not classified for transportation.
Environmental hazards	Other information: No environmental hazards known with this product.
Special precautions for user	Not classified for transportation.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

#### 15. Regulatory Information

<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	Approved code of practice: Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations. Guidance notes: Workplace Exposure Limits EH40.
<b>Chemical Safety Assessment</b>	Not applicable. No chemical safety assessment has been carried out.

#### 16. Other Information

**Training advice:**

None.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Any chemical product may be handled in safe conditions if its physiochemical and toxicological properties are known, and technical methods and appropriate organising measure are used, as well as adequate personal protective equipment.*