



# SAFETY DATA SHEET

5569

RED IRON OXIDE

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

<b>Trade name:</b>	Hematite
<b>Chemical Name:</b>	None
<b>Synonyms:</b>	Type 8, Type 40, Type 60, Iron Spangles

### Relevant identified uses:

Use of the substance/preparation:

Substance used as such, in formulation or in formulation of products such as:  
Foundries, Glass, Ceramics, Steel industries.

### Uses advised against:

No information available

## 2. Composition /information on ingredients

Component	CAS	EC No.	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)
Hematite	1317-60-8	215-275-4	>88	Not classified	Not classified

## 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 or 1999/45/EC</b>	Not classified
<b>Labelling according to Regulation (EC) No. 1272/2008 (CLP)</b>	None
<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 the fresh air at once. Get medical attention if any discomfort continues.
<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>	This product is not flammable. Use fire extinguishing media appropriate for the surrounding conditions.
<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: Hematite United Kingdom – WEL: 5.0mg/m <sup>3</sup> . STEL: 15 mins: 10.0 mg/m <sup>3</sup> France – VLEP: 5.9 mg/m <sup>3</sup> Spain – VLA: 5.0 mg/m <sup>3</sup>
<b>Exposure limits</b>	Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).
<b>Ingredient comments:</b>	Dust contains respirable silica. Prolonged and/or massive inhalation of respirable silica dust may cause lung fibrosis. Commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handles using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the 'size-weighted respirable function – SWEFT' method. All details about the SWERF method are available at <a href="http://www.crystallinesilica.eu">www.crystallinesilica.eu</a>
<b>Appropriate engineering controls</b>	Use as far as possible in a closed system. Provide a regular control of the atmosphere. Emergency eye wash foundations 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 goggles with side shields according to EN 166.
<b>Hand protection:</b>	Use gloves resistant to chemical products corresponding to EN 374:3. Take advice 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 EN 149:2001.
<b>Environmental Exposure Controls:</b>	Avoid release to the environment.

## 9. Physical & Chemical Properties

<b>Physical state</b>	Granular powder
<b>Colour</b>	Black
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Not applicable
<b>pH</b>	No data available
<b>Relative evaporation rate</b>	No data available
<b>Melting point (°C)</b>	1200°C
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	Not flammable



Self-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	Not applicable
Relative vapour density at 20°C	No data available
Relative density	5.0
Density	No data available
Solubility	Negligible
Log Pow	Not applicable
Log Kow	Not applicable
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not explosive
Oxidising properties	Non oxidising material according to EC criteria
Exposure limits	Not applicable

## 10. Stability & Reactivity

Reactivity	No specific reactivity hazards associated with this product.
Chemical stability	Stable under normal conditions of handling and storage
Possibility of hazardous reactions	Not relevant
Conditions to avoid	Not relevant
Incompatible materials	No specific, or groups of materials are likely to react to product a hazardous situation.
Hazardous decomposition products	Not relevant

## 11. Toxicological Information

Acute toxicology	Not relevant
Irritation corrosion	Skin: Powder may irritate skin. Eyes: Particles in the eyes may cause irritation and smarting.
Sensitisation:	Dust in high concentrations may irritate the respiratory system.
Other health effects:	This substance has no evidence of carcinogenic properties.

## 12. Ecological Information

Ecotoxicity:	Not regarded as dangerous to the environment.
Acute fish toxicity:	Not considered toxic to fish.
Persistence and degradability:	This product is not readily biodegradable.
Bio accumulative potential:	Not relevant, due to the form of the product.
Mobility in soil:	No known significant effects or critical hazards.
Results of PBT and vPvB assessment:	This substance does not meet the PBT or vPvB criteria of REACH, annex XIII.
Other adverse effects	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

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

### 15. Regulatory Information

<b>Approved code of practice:</b>	Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
<b>Guidance notes:</b>	Workplace Exposure Limits EH40.

### 16. Other Information

<b>Full text of R-phrases referred to under Sections 2 and 3</b>	
<b>R48/20</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
<b>Full text of R-phrases referred to under Sections 2 and 3</b>	
<b>H372</b>	Causes damage to lung through prolonged or repeated exposure by inhalation.

#### **Training advice:**

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

*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.*