

IRONOXIDE SafetyDataSheet

In compliance with Regulation (EC)1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010

Date of issue: 03/03/2011 Revision date: 30/06/2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking.

1.1. Product identifier

Product name: Hematite

EC no: 215-275-4 CAS No.: 1317-60-8

REACH registration No.: Exempted in accordance with Annex V.7

Synonyms: Type 8, Type 40, Type 60, Iron Spangles

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. 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 1.2.2. Uses advisedagainst
- None

Full text of use descriptors: see section 16.

1.3. Details of the supplier of the safety data sheet

Keramikos Oudeweg 153 2031 CC Haarlem

1.4. Emergency telephone number

023 - 542 44 16



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SECTION2: Hazardsidentification.

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical and chemical hazards: Not classified

Human health: Not classified Environment: Not classified

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

None known

2.2.Labelelements

Labelling according to Regulation (EC) No. 1272/2008

(CLP) None

2.3.Otherhazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients.

3.1. Substances

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



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Full text of R-, H- and EUH-phrases: see section 16

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SECTION 4: First aid measures.

4.1. Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion: Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact: Wash skin with soap and water. Get medical attention if irritation persists after washing. Eye

contact: Make sure to remove any contact lenses from the eyes before rising. Rinse eye with water

immediately. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: No specific symptoms noted.Ingestion: No specific symptoms noted.Skin contact: No specific symptoms noted.Eye contact: No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures.

5.1. Extinguishing media

Suitable extinguishing media: This product is not flammable. Use fire extinguishing media appropriate for the

surrounding conditions.

Unsuitable extinguishing media: None

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not flammable.

Explosion hazard: No explosive properties known.

Reactivity: Stable under normal conditions of handling and storage.



5.3. Advice for firefighters Protection during firefighting: No specific fire fighting procedures given.

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SECTION 6: Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Keep public away from danger area. See section 8.2.

6.1.1. For non-emergency personnel No

additional information available

6.1.2. For emergency responders No

additional information available

6.2. Environmental precautions

Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

6.4. Reference to other sections

See section 8 and 13 for more information.

SECTION 7: Handling and storage.

7.1. Precautions for safe handling

Precautions for safe handling: 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.

Packagings: Even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packages as if they were full. Avoid all contact with this substance.

Hygiene measures: 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

The identified uses for this product are detailed in section 1.2



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SECTION 8: Exposure controls/personal protection.

8.1. Control parameters

Chemical Name	United Kingdom	France	Spain
Hematite	WEL: 5.0 mg/m ³ STEL -15min: 10.0 mg/m ³	VLEP: 5.9 mg/m ³	VLA: 5.0 mg/m ³

ExposureLimits:

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).

Ingredientscomments:

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 handled using methods and techniques that minimise or eliminate dust generation. The product contains less that 1% w/w RCS (respirable crystalline silica) as determine by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method are available at www.crystallinesilica.eu

8.2. Exposure controls

Appropriate engineering controls: 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).



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Hand protection: Use gloves resistant to chemical products corresponding to EN 374:3. Take advice to gloves' manufacturer.

Eye protection: Wear safety glasses with side shields according EN 166.

Skin and body protection: Wear closed protective clothing.

Respiratory protection: 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.

Environmental exposure controls: Avoid release to the environment.

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SECTION 9: Physical and chemical; properties.

Physical state Granular Powder.

Colour Black.
Odour odourless.
Odour threshold Not applicable
pH No data available
Relative evaporation rate (butylacetate=1) No data available

Melting point 1,200 °C

Freezing point

Boiling point

No data available

No data available

Flash point

Not flammable

Self ignition temperature

Not applicable

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

Log Pow

Not applicable

Log Kow

Not applicable

Viscosity, kinematic

Viscosity, dynamic

Not applicable

Explosive properties Not explosive.

Oxidising properties Non oxidizing material according to EC criteria.



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Explosive limits

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity.

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Not relevant.





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10.4. Conditions to avoid

Not relevant

10.5. Incompatible materials

No specific, or groups of materials, are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition products

Not relevant

SECTION 11: Toxicological information.

11.1. Information on toxicological effects

Other health effects: This substance has no evidence of carcinogenic properties.

Acute toxicity Not relevant.

Skin corrosion/irritation Powder may irritate skin.

Serious eye damage/irritation Particles in the eyes may cause irritation and smarting.

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SECTION 12: Ecocological information.

Ecotoxicity: Not regarded as dangerous to the environment

12.1. Acute fish toxicity

Not considered toxic to fish

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12.2. Persistence and degradability

This product is not readily biodegradable.

12.3. Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Not relevant, due to the form of the product.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT or vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations.

13.1. Waste treatment methods

Waste treatment methods: Dispose of this material and residues in accordance with local authority requirements.

Additional information: Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

Ecology - waste materials: See the european waste catalogue.

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SECTION 14: Transport information.

14.1. UN number

The product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN proper shipping name

Not classified for transportation.



14.3. Transport hazard class(es)

Not classified for transportation.

14.4. Packing group

Not classified for transportation.

14.5. Environmental hazards

Other information: No environmental hazards known with this product.

14.6. Special precautions for user

Not classified for transportation.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

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.

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EU Legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment.

Exempted from REACH Registration in accordance with Annex V.7

SECTION 16: Other information.

Full text of R-phrases referred to under sections 2 and 3

R48/20 — Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Full text of R-phrases referred to under sections 2 and 3

H372 — Causes damage to lung through prolonged or repeated exposure by inahaltion.

Abbreviations and acronyms:

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF: Assessment factor BCF: Bioconcentration factor

Bw: Body weight

CAS: Chemical Abstracts Service

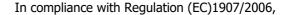
CLP: Classification, labelling, packaging

CSR: Chemical Safety Report

DMEL: Derived maximum effect level DNEL: Derivative No effect Level

EC: European Community ELV: Emission limit values EN: European Norm

EUH: European Hazard Statement





EWC: European Waste catalogue

IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50: Median lethal dose

NOAEL: No-observed-adverse-effect-level

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NOEC: No observed effect concentration

NOEL: No observed effect level OEL: Operator exposure level

PBT: Persistent, bioaccumulative, Toxic

PEC: Predicted effect level

PNEC: Predicted No effect Concentration

REACH: Registration, evaluation and autorisation of chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

STEL: Short Term Exposure Limit TWA: Time weighted average vPvB: Very persistent, very

bioaccumulative.

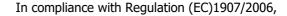
Training advice:

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.

Social Dialogue on Respirable Crystalline Silica

A multi-sectorial social dialogue agreement on workers Health Protection through the Good Handling and Use of Crystalline Silica Products Containing it was signed on 25th April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25th October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from http://wwwnepsi.eu and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

Health & Safety Executive (Specific for UK)





Detailed reviews of the scientific evidence on the health effects of crystalline silica have been published by HSE (Health and Safety Executive, UK) in the Hazard Assessment Documents EH75/4 (2002) and EH75/5 (2003). The HSE points out on its website that "Workers exposed to fine dust containing quartz are at risk of developing a chronic and possibly severely disabling lung disease known as "silicosis". In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis". In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis.

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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 quaranteeing any specific property of the product.

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