

WOLVERHAMPTON ABRASIVES LTD

HEALTH AND SAFETY DATA SHEET

Material Safety Data Sheet according to 93/112/EC

Product Name: **Garnet**
Grades: **Coarse, Medium, Fine and Waterjet Cutting 80 and 100 mesh grades**

Issue date: **September 2003**

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1. Chemical Product and Company Identification

Product Name: **Garnet**
Supplier: **Wolverhampton Abrasives Ltd
Orgreave Drive
Handsworth, Sheffield
South Yorkshire ENGLAND
Phone Number: +44(0)1142 540742
Fax Number : +44(0)1142 540913**

In case of emergency call: **Wolverhampton Abrasives Ltd
Phone Number: +44(0)1142 540742**

Contact: **Richard Paddison**

2. Composition / Information on Ingredients

| | % |
|---|------------------|
| <i>Chemical composition:</i> | |
| Silica Oxide (SiO₂) | 35.00 |
| Iron Oxide(Fe₂O₃) | 33.00 |
| AluminiumOxide (Al₂O₃) | 23.00 |
| Magnesium Oxide(MgO) | 7.00 |
| Magnese Oxide (MgO) | 1.00 |
| Calcium Oxide (CaO) | 1.00 |
| | |
| Free Silica | < 1.00 |

Garnet, semi precious stone from naturally formed rock comprising mainly of almandine garnet

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3. Potential Health Hazards:

Eyes and throat can become irritated when exposed to too high concentrations in short term. In long term may aggravate emphysema and other lung diseases. May cause skin irritation. There is no significant immediate health, physical or environmental hazards.

4. First Aid Measures

| | |
|-----------------------------|--|
| <i>Inhalation:</i> | Remove to fresh air, give water to drink. |
| <i>Skin:</i> | Wash with soap and water. |
| <i>Eye:</i> | Immediately wash with plenty of water. If irritation persists, consult physician. |
| <i>Ingestion:</i> | Give water to drink, wash mouth out if appropriate. |
| <i>Advice to physician:</i> | No specific advice. Treat according to symptoms present. |

5. Fire Fighting Measures

Not applicable

6. Accidental Release Measures

| | |
|---|---|
| <i>Personal protection:</i> | Wear recommended personal protective equipment. |
| <i>Procedure for cleaning and recollection:</i> | Sweep up creating the minimum amount of dust. Collection in container, e.g. mini bulk bag or drum. |

7. Handling and storage

| | |
|---------------------------------|---|
| <i>Handling:</i> | Avoid breathing dust. Avoid spillage which can cause slippery floors. Use good personal hygiene and housekeeping. |
| <i>Storage recommendations:</i> | Keep material in dry warehouse. |
| <i>Storage class:</i> | Not applicable. |

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8. Exposure controls / Personal protection

Engineering controls: Use adequate ventilation if dusty conditions prevail when handling the product. For storage and ordinary handling, general ventilation is adequate.

Exposure guidelines, Dust: Total dust < 10 mg/m³ 8 hour TWA
Respirable dust < 4 mg/m³ 8 hour TWA

Respiratory protection: Blasting operators should use a CE marked or HSE approved shotblasting helmet. Ancillary workers should use a P2 dust respirator.

Skin protection: Protective garments.

Eye protection: Blasting helmet as above or goggles.

9. Physical and Chemical Properties

Appearance:

Physical state: Solid, angular granules

Colour: Dark pink/red

Odour: None

Safety relevant data:

Melting point: 1300 C

Lower explosion limit: Not applicable.

Upper explosion limit: Not applicable

Specific gravity: 4.0-4.1 kg/dm³

Bulk density: 2400 kg/dm³

Hardness: 7-8 Mohs

Solubility in water: None.

10. Stability and Reactivity

Stable under normal conditions.

11. Toxicological Information

Immediate (acute) effects: Not applicable.

Delayed (subchronic and chronic) effects: Not applicable.

Other data: Dust in concentration above the max. recommended concentrations might cause irritation of eyes and throat, and if inhaled over a prolonged period of time, constitute a health hazard

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12. Ecological Information

Not hazardous.

13. Disposal Considerations.

Discard as non-hazardous inert solid waste according to applicable local regulations. Special disposal procedures may apply to spent abrasive which may contain other materials derived from the substrate being cleaned.

14. Transport Information

Land Transport:

| | |
|-------------|----------------------|
| <i>ADR</i> | Not regulated |
| <i>GGVS</i> | Not regulated |
| <i>RID</i> | Not regulated |
| <i>GGVE</i> | Not regulated |

Identification of the product:

Danger number **UN nr:**

River / Canal-transport:

ADNR **Not regulated**

Sea-Transport:

| | |
|-------------------------|----------------------|
| <i>IMDG/GGVSea-code</i> | Not regulated |
| <i>EmS MFAG</i> | |

Air-transport:

ICAO/IATA-DGR **Not regulated**

Other Information:

May be sent by mail.

15. Regulatory Information

Danger symbols: **not applicable**

National regulations: **not applicable**

16. Other Information

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