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Material Safety Data Sheet according to 93/112/EC

Trade Name: **Sinterball**  
Grades: **Various grades as per technical data sheet**  
Issue date: **May 2005** Page: 1(4)

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**1. Chemical Product and Company Identification**

Product Name: **Sinterball**  
Supplier: **Hodge Clemco Ltd**  
**Orgreave Drive**  
**Handsworth, Sheffield**  
**South Yorkshire ENGLAND**  
Phone Number: **+44(0) 114 254 0600**  
Fax Number: **+44(0) 114 254 0250**

In case of emergency call: **Hodge Clemco Ltd**  
Phone Number: **+44(0) 114 254 0600**

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**2. Composition / Information on Ingredients**

Chemical composition:	%
<b>Aluminium Oxide Al<sub>2</sub>O<sub>3</sub></b>	<b>79.70</b>
<b>Titanium Oxide (TiO<sub>2</sub>)</b>	<b>1.82</b>
<b>Calcium/Magnesium Oxide</b>	<b>0.83</b>
<b>Potassium/Sodium Oxide</b>	<b>0.43</b>
<b>Iron Oxide (FeO)</b>	<b>13.00</b>
<b>Silicon Oxide ( SiO<sub>2</sub>)</b>	<b>4.21</b>
<b>Free Silica</b>	<b>&lt; 0.1</b>

**Sinterball is a spherical aluminium oxide**

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**3. Potential Health Hazards:**

Eyes and throat can become irritated when exposed to too high concentrations. May cause skin irritation. There is no significant immediate health, physical or environmental hazards.

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**4. First Aid Measures**

*Inhalation:*

Remove to fresh air.

*Skin:*

Wash with water and soap.

*Eye:*

Immediately wash with plenty of water. If irritation persists, consult physician.

*Ingestion:*

Give water to drink, wash mouth out if appropriate.

*Advice to physician:*

No specific advice. Treat according to symptoms present.

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**5. Fire Fighting Measures**

Not applicable

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**6. Accidental Release Measures**

*Personal protection:*

Wear recommended personal protective equipment.

*Procedure for cleaning and recollection:*

Sweep up with a minimum of dusting.

Collection in container, e.g. mini bulk bag or drum.

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**7. Handling and storage**

*Handling:*

Avoid breathing dust. Avoid spillage which can cause slippery floors. Use good personal hygiene and housekeeping.

*Storage*

Keep material in dry warehouse.

*recommendations:*

*Storage class:*

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/m<sup>3</sup> 8 hour TWA  
Respirable dust < 4 mg/m<sup>3</sup> 8 hour TWA  
(no free SiO<sub>2</sub>, all components are amorphous / non- crystalline).

*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.

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## 9. Physical and Chemical Properties

*Appearance:*

<i>Physical state:</i>	Round spheres
<i>Colour:</i>	Black
<i>Odour:</i>	None

*Safety relevant data:*

<i>Melting point:</i>	2000°C
<i>Lower explosion limit:</i>	Not applicable.
<i>Upper explosion limit:</i>	Not applicable
<i>Specific gravity:</i>	3.77 kg/dm <sup>3</sup>
<i>Bulk density:</i>	2100 kg/dm <sup>3</sup>
<i>Hardness:</i>	9 Mohs
<i>Solubility in water:</i>	None

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## 10. Stability and Reactivity

Stable under normal conditions.

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## 11. Toxicological Information

*Immediate (acute) effects:* Not applicable.

*Delayed (sub chronic and chronic) effects:* Not applicable.

*Other data:* Dust in concentration above the max. Recommended concentrations might cause irritation of eyes and throat.

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## 12. Ecological Information

Not applicable.

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## 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.

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## 14. Transport Information

### Land Transport:

ADR	Not regulated
GGVS	Not regulated
RID	Not regulated
GGVE	Not regulated

### Identification of the product:

Danger number      UN nr:

### River / Canal-transport:

ADNR      Not regulated

### Sea-Transport:

IMDG/GGVSea-code	Not regulated
EmS      MFAG	

### Air-transport:

ICAO/IATA-DGR      Not regulated

### Other Information:

May be sent by mail.

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## 15. Regulatory Information

Danger symbols:      not applicable

National regulations:      not applicable

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## 16. Other Information

The information contained in this document is to the best of our knowledge accurate, but since The circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which may result directly or indirectly from the use of such information.

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