

# WOLVERHAMPTON ABRASIVES LTD

## HEALTH AND SAFETY DATA SHEET

---

Material Safety Data Sheet according to 93/112/EC

*Product Name:* **Ferro Silicon/Aluminum Oxide mix**  
*Grades:* **Various grades as per technical data sheet**

*Issue date:* **May 2005** *Page:* 1(4)

---

### 1. Chemical Product and Company Identification

*Product Name:* **Ferro Silicon**  
*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>	%	
<i>Aluminium Oxide ( Al<sub>2</sub>O<sub>3</sub> )</i>		33.50
<i>Titanium Oxide ( TiO<sub>2</sub> )</i>	0.9	
<i>Silica Oxide ( SiO<sub>2</sub> )</i>	0.30	
<i>Iron ( Fe )</i>		53.00
<i>Silicon</i>	8.8	
<i>Iron Oxide ( Fe<sub>2</sub>O<sub>3</sub> )</i>	0.3	
<i>Free Silica</i>	<	0.10

Ferro silicon consists of a metallic part and a synthetic mineral part.

---

Material Safety Data Sheet according to 93/112/EC

Trade Name: **Ferro Silicon/Aluminum Oxide mix**

Issue date: **May 2005** Page: 2(4)

---

**3. Potential Health Hazards:**

Eyes and throat can become irritated when exposed to too high concentrations in short term.  
There is no significant immediate health, physical or environmental hazards.

---

**4. First Aid Measures**

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

---

**5. Fire Fighting Measures**

**Not applicable**

---

**6. Accidental Release Measures**

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

---

**7. Handling and storage**

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

---

Product Name: **Ferro Silicon/Aluminum Oxide mix**

Issue date: **May 2005**

Page: 3(4)

---

### **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<sub>3</sub> 8 hour TWA**  
**Respirable dust < 4 mg/m<sub>3</sub> 8 hour TWA**

*Respiratory protection:* **P2 dust respirator.**

*Skin protection:* **Protective garments.**

*Eye protection:* **Goggles.**

---

### **9. Physical and Chemical Properties**

*Appearance:*  
*Physical state:* **Solid, angular granules**  
*Colour:* **Grey, brown , shiny metallic**  
*Odour:* **None**

*Safety relevant data:*  
*Melting point:* **2000 C**  
*Lower explosion limit:* **Not applicable.**  
*Upper explosion limit:* **Not applicable**  
*Specific gravity:* **5.0-5.5 kg/dm<sub>3</sub>**  
*Bulk density:* **2500 kg/dm<sub>3</sub>**  
*Hardness:* **9-9.2 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**

**Material Safety Data Sheet according to 93/112/EC**

*Product Name:* Ferro Silicon / Aluminum Oxide mix

*Issue date:* **May 2005** *Page:* 4(4)

---

**12. Ecological Information**

Not hazardous.

---

**13. Disposal Considerations.**

Discard as non-hazardous inert solid waste in as supplied form according to applicable local regulations.

---

**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.

---

**15. Regulatory Information**

*Danger symbols:* not applicable

*National regulations:* not applicable

---

**16. Other Information**

The information contained in this document is to the best of our knowledge accurate, but is given without warrant to its accuracy, reliability or completeness. 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.