

WOLVERHAMPTON ABRASIVES LTD

HEALTH AND SAFETY DATA SHEET

Material Safety Data Sheet according to 93/112/EC

Trade Name: **JBlas- Aluminium silicate**
Grades: **Standard, Supa, Supafine and Dirk Grades 1-5**
Issue date: **September 2003** Page: 1(4)

1. Chemical Product and Company Identification

Product Name: **ALUMINIUM SILICATE- JBlas and Dirk**
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

| Chemical composition: | | | | % |
|--|----|-----|-----|-----|
| Iron Oxide (FeO) | 8 | - | 17 | |
| Silica (SiO ₂) | 45 | - | 52 | |
| Aluminium Oxide Al ₂ O ₃ | 22 | - | 31 | |
| Calcium Oxide CaO | 3 | - | 5 | |
| Zinc Oxide (ZnO) | 0 | - | 0.2 | |
| Copper Oxide (CuO) | 0 | - | 0.2 | |
| Tin Oxide (SnO) | 0 | 0 | - | 0.2 |
| Nickel Oxide (NiO) | 0 | - | 0.1 | |
| Lead Oxide (PbO) | 0 | - | 0.2 | |
| Magnesium Oxide (MgO) | 0 | 1 | - | 5.0 |
| Manganese Oxide (MnO) | 0 | - | 0.1 | |
| Potassium Oxide | 4 | - | 5 | |
| Free Silica | < | 0.1 | | |

Aluminium Silicate, amorphous glass composition, inert by-product from granulation in water of slag arising from coal fired power stations.

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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.

4. First Aid Measures

Inhalation:

Remove to fresh air.

Skin:

Wash with water and soap.

Eye:

Immediately wash with plenty of water.

Ingestion:

If irritation persists, consult physician.

Advice to physician:

No danger known, wash mouth out if appropriate.

No specific advice.

Treat according to symptoms present.

5. Fire Fighting Measures

Not applicable

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.

7. Handling and storage

Handling:

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

Storage recommendations:

Keep material in dry warehouse.

Storage class:

Not applicable.

8. Exposure controls / Personal protection

| | |
|---|--|
| <i>Engineering controls:</i> handling | Use adequate ventilation if dusty conditions prevail when the product. For storage and ordinary handling, general ventilation is adequate. |
| <i>Exposure guidelines, Dust:</i> | Total dust < 10 mg/m³ 8 hour TWA Respirable dust < 4 mg/m³ 8 hour TWA (no free SiO₂, all components are amorphous / non- crystalline). |
| <i>Respiratory protection:</i> | Blasting operators should use a CE marked or HSE approved shotblasting helmet. Ancillary workers should use a P2 dust respirator. |
| <i>Skin protection:</i> | Protective garments. |
| <i>Eye protection:</i> | Blasting helmet as above or goggles. |

9. Physical and Chemical Properties

| | |
|-------------------------------|-----------------------------------|
| <i>Appearance:</i> | |
| <i>Physical state:</i> | Solid, angular granules |
| <i>Colour:</i> | Black, brown, green glassy |
| <i>Odour:</i> | None |
| <i>Safety relevant data:</i> | |
| <i>Melting point:</i> | 1260°C |
| <i>Lower explosion limit:</i> | Not applicable. |
| <i>Upper explosion limit:</i> | Not applicable |
| <i>Specific gravity:</i> | 2.4-2.6 kg/dm³ |
| <i>Bulk density:</i> | 1.3-1.4 kg/dm³ |
| <i>Hardness:</i> | 7 Mohs |
| <i>Solubility in water:</i> | Not applicable. |

10. Stability and Reactivity

Stable under normal conditions.

11. Toxicological Information

| | |
|--|---|
| <i>Immediate (acute) effects:</i> | Not applicable. |
| <i>Delayed (subchronic and chronic) effects:</i> | Not applicable. |
| <i>Other data:</i> | Dust in concentration above the max. recommended concentrations might cause irritation of eyes and throat. |

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Trade Name: **JBlas[®] and Dirk- Aluminium silicate all grades**

12. Ecological Information

Not applicable.

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

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

Identification of the product:

| | |
|----------------------|---------------|
| <i>Danger number</i> | UN nr: |
|----------------------|---------------|

| | |
|---------------------------------|----------------------|
| <i>River / Canal-transport:</i> | |
| <i>ADNR</i> | Not regulated |

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

| | |
|-----------------------|----------------------|
| <i>Air-transport:</i> | |
| <i>ICAO/IATA-DGR</i> | Not regulated |

| | |
|---------------------------|-----------------------------|
| <i>Other Information:</i> | May be sent by mail. |
|---------------------------|-----------------------------|

15. Regulatory Information

| | |
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| <i>Danger symbols:</i> | not applicable |
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|------------------------------|-----------------------|
| <i>National regulations:</i> | 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.