



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Range: Non-Wetting Castable Range
Product Type: Monolithic Refractory (Castable)
MSDS Reference Code: DAVAL
Manufacturer / Supplier: DAV Refractory Sdn. Bhd.
Lot 4959, Jalan Teratai, Batu 5½, Jalan Meru,
41050 Klang, Selangor, Malaysia.
Technical / Emergency Contact: Phone: +(6014) 5563388 Fax: +(603) 33263068

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

| Name | Percent | CAS Number |
|----------------------------------|---------|----------------|
| Special Non-Wetting Additives | 1 - 5 | - |
| Calcium Aluminates | 1 - 10 | CAS 65997-16-2 |
| Aluminium Oxide | 20 - 95 | CAS 1344-28-1 |
| Crystalline Silica, Quartz | 0.1 - 1 | CAS 14808-60-7 |
| Aluminosilicate | 0 - 80 | CAS 1302-93-8 |
| Silica, Amorphous | 1 - 10 | CAS 69012-64-2 |
| Crystalline Silica, Cristobalite | 0.1 - 5 | CAS 14464-46-1 |

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Hazard

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Potential Chronic Health Hazard

Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

SECTION 4: FIRST AID MEASURES

| | |
|---------------------|---|
| Inhalation | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. |
| Eye Contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists. |
| Skin Contact | Wash with soap and water. Get medical attention if irritation persists. |
| Ingestion | Rinse mouth thoroughly. Get medical attention if any discomfort continues. |

SECTION 5: FIRE FIGHTING MEASURES

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|------------------------------------|----------------|
| Flammability Of The Product | Non flammable |
| Auto Ignition Temperature | Not applicable |
| Flash Point | Not applicable |
| Flammable Limits | Not applicable |
| Products Of Combustion | Not available |

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spillage:

No special requirement. Use safety glasses, gloves, skin, and respiratory protection.

SECTION 7: HANDLING AND STORAGE

| | |
|-----------------------------|---|
| Handling Precautions | Dust may be liberated during handling, opening of bags and subsequent disposal of emptied bags. |
| Staroge Information | Store in a dry area away from direct heat, which may cause damage to packaging materials / pallets. |

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-----------------------------|---|
| Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection | Splash goggles. Synthetic apron. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Hand gloves. |
| Other Precautions | Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------------|--------------------------------|
| Physical State And Appearance | Granular solid |
| Color | Grey |
| Solubility | Negligible solubility in water |
| Temperature Limit | Refer to data sheet |
| Bulk Density | Refer to data sheet |
| Chemical | Refer to data sheet |

SECTION 10: STABILITY AND REACTIVITY DATA

| | |
|--------------------------------|-----------------------|
| Stability | The product is stable |
| Incompatibility | None |
| Hazardous Decomposition | None |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|---------------------|---|
| Eye Contact | May cause eye irritation. No permanent damage expected. |
| Skin Contact | May cause skin irritation. No risk associated. |
| Ingestion | Not determined |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--|----------------|
| Mobility (Water / Soil / Air) | Not determined |
| Persistence / Degradability | Not determined |
| Bio-accumulation | Not determined |

SECTION 13: DISPOSAL CONSIDERATION

Waste disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

| | |
|---------------------------|---|
| DOT Classification | Not a DOT controlled material. |
| Other Information | Keep product well protected from moisture, rain and snow. |

SECTION 15: REGULATORY INFORMATION

Products from this range in the form supplied require no health & safety labelling and comply with EC.

Directives 1999/45/EC, 2001/58/EC and 2001/60/EC.

The Malaysian Factories and Machineries Act Regulations 1967.

The Malaysian Occupational Safety and Health Act Regulations 1994.

The Malaysian Environmental Quality Act Regulations 1974.

The Malaysian Employee's Social Security Act Regulations 1969.

SECTION 16: OTHER INFORMATION

References Not available

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