iTe® CEMENT
SUPERIOR BUILDING CEMENT

MSDS
MATERIAL SAFETY DATA SHEET

For common cement types

SABPS Approved

Company Identification

Manufacturer:
Pharaoh Cement (Pty) Ltd
Manufacturing plant:
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MATERIAL SAFETY DATA SHEET

[1] Product Identification:

1.1 Brand Names:
- iTe Cement
- Pharaoh Cement

1.2 Common cement Standards: SANS 50197-1:2013
- Composite cement is a light grey powder used in construction material in concrete, mortar and plaster. Sold in 50kg bags.

1.3 Masonry cement Standards: SANS 50413-1:2014
- Masonry cement is a light grey powder used in applications for mortar and plaster only and is not meant for use in concrete applications.
- Sold in 50kg bags.

[2] Cement Types and Properties:

CEM V/A (S-V) 32.5N COMPOSITE CEMENT	CEM IV/B (V) 32.5R POZZOLANIC CEMENT	CEM V/A (S-V) 42.5N COMPOSITE CEMENT	CEM II/B-M (S-V) 42.5R PORTLAND COMPOSITE CEMENT

[3] Composition:

3.1 Main constituents are calcium silicates, aluminates, ferro-aluminates and sulfates. It contains gypsum and small amounts of sodium, potassium and chromium compounds.

Compound name	%	CAS No.
Tri-calcium silicate	<70	CAS # 12168-85-3
Di-calcium silicate	< 40	CAS # 1003-77-2
Tri-calcium aluminate	< 15	CAS # 12042-78-3
Tetra calcium alumino-ferrite	< 18	CAS # 12068-35-8
Gypsum	2-5	CAS # 13397-24-5
Calcium oxide	0-5	CAS # 1305-78-8

3.2 Extenders:
- L – Limestone
- S – Slag
- V – Siliceous fly ash

[4] Physical and Chemical Properties:

4.1 GENERAL INFORMATION:

Physical sate/form	Solid – powder
Colour	Grey - brown
Odour	Odourless

[5] Important Information about the Protection of Health, Safety & the Environment:

Melting point / melting range	not applicable
Boiling point / boiling range	not applicable
Flash point	not applicable
Auto-ignition temperature	product is not self-igniting
Lower explosion limit (LEL)	not applicable
Vapour pressure	not applicable
Bulk density	1300-1500 kg/m³ (DIN EN ISO 60)
Water solubility / miscibility	Insoluble - sets in water
pH-Value	11
Viscosity (dynamic)	not applicable

[6] Hazard Identification:

Inhalation	Inhalation may cause irritation to upper respiratory system.
Skin Contact	Long term exposure can cause chemical burns and lead to contact dermatitis,
Eyes	Cement can cause extreme eye irritation. Extreme eye contact can lead to corneal damage.

[7] First Aid Measures:

Product in eyes:	Wash eyes with large volumes of water and seek medical attention.
	Wear fully sealed eye protection.
Product inhaled:	Move exposed person to fresh air and away from dusty area.
	Always wear dust masks approved by SABS.
Product ingested:	Indigestion in harmful quantities in unlikely to occur.
	Do not eat in areas exposed to cement dust.
	If indigested – drink plenty of water and seek immediate medical attention
Product on skin:	Wear appropriate PPE with long sleeves.
	If in contact with skin, wash off with water and soap.

[8] Fire Fighting Measures:

- This product is not combustible.
- Use product most appropriate to extinguish fire.

[9] Handling And Storage:

Suitable packaging:	Paper or poly bags. Silos and bins.
Handling:	Wear appropriate PPE. (Dust mask, safety glasses, gloves and long sleeves).
Storage:	If packed, store away from moisture, on an elevated position (pallet) away from direct contact with walls. Cement has a shelf life of approximately 6 months inland, and 3 months on the coast but this can be affected by the storage conditions.

[10] Stability and Reactivity:

- Product is stable, however, absorbs moisture and will solidify over prolonged periods.

[11] Toxicological Information:

- Dust and wet cement cause serious eye irritation.
- Long term exposure may lead to contact dermatitis.

[12] Ecological Information:

- Nontoxic in small quantities.
- Large quantities will lead to high PH values and aquatic life can be endangered.
- Cement will harden.

[13] Disposal considerations:

- Do not allow product to reach sewage system.
- Disposal should be in accordance with local, state or national legislation.
- Mix product with water, allow to harden and dispose of as construction waste.

[14] Transport information

- In terms of the National Road Traffic Act, act 93 of 1996 regulations and SANS 10228 (The identification and classification of dangerous goods for transport by road and rail modes), Portland cement and cement blends are not hazardous.
- In terms of the International Maritime Dangerous Goods Code, Portland cement and cement blends are not hazardous and as such do not have a U.N. number.
- Portland cement is listed as an Appendix C cargo in terms of the BC code.

[15] Regulatory information

- National and local regulations should be observed.

[16] Other information

- Above information describes only the safety requirements of the products and is based on present-day knowledge. It does not represent a guarantee for the properties of the products described in terms of legal warranty regulations.