

CEMENTITIOUS MATERIAL SAFETY DATA SHEET

Name of Substance: Portland Cement and Cement Extenders Synonym: Cement, Cement Blends, Masonry cement, slag, fly ash, Pozzfill, silica fume, CSF. Covered by cement standards SANS 50197 and SANS 50413 and extender standards SANS		Chemical Formula: Tri & Di-calcium silicate and silicon dioxide	
U.N. No No U.N. Number Hazcem code: Awaited NIOSH No: W9770000(RTECS)		Packaging: 25,40 & 50 kg paper bags mini bulk silos, road & rail tankers	
PHISICAL PROPERTIES:		OTHER CHARACTERISTICS	
Relative density (Water=1)	2,2 -3.8 kg/l	Stability:	Unstable
Solubility in water	Negligible 1%	Incompatibility with other materials:	Avoid moisture - strongly alkaline and hardens when wet
Melting point	1500 deg. C	Hazardous decomposition:	Nil
Molecular weight	Variable	Hazardous polymerization	Nil
Boiling point at 760mm Hg	Not applicable		
Flammability	Non combustible		
Fire fighting procedures	Not applicable		
Explosiveness	Nil		
Alkalinity	Ph 10 - 13		
OEL total inhalable	RL	10mg /m	
OEL respirable dust	RL	5mg/m	
HAZARDS / SYMPTOMS	PREVENTION		FIRE EXTINGUISHING & FIRST AID
Inhalation:	Demarcate dust areas with zebra lines Use dusk mask in accordance SABS 1455 / EN & Govt. Gaz 1200 of 22/10/89		Remove exposed person to fresh air. If inflamed, seek medical advice
Skin:	Wear gloves and long sleeves		Wash with water & non-sensitizing soap
Eyes:	Wear fully sealing eye protection		Wash eyes with large volumes of water. Seek medical attention
Ingestion:	Do not eat in areas exposed to cement dust		Ingestion in harmful quantities is unlikely to occur. If ingested drink plenty of water and consult a doctor immediately. DO NOT INDUCE COMITING
OTHER:	STORAGE REQUIREMENTS		PACKAGING AND LABELING
Spillage Handling: Sweep or vacuum to minimize dust dispersion	Keep dry Do not stack more tan 12 bags high		In terms of SANS 10228

SOUTH AFRICAN CEMENT PRODUCERS ASSOCIATION / MATERIAL SAFETY DATA SHEET

HEALTH HAZARD INFORMATION

Inhalation: Exposure over long periods of time to very high concentrations may cause a cough with phlegm.	TWA OEL - RL 5mg/m respirable dust
	TA OEL - RL 10mg/m total inhalable dust
Skin contact:	Prolonged exposure could sensitise skin causing mild irritation or allergic dermatitis in extreme cases
Eye contact:	Irrigate with large amounts of water Seek immediate medical attention
Ingestion:	Ingestion in harmful quantities is unlikely to occur. If ingested drink plenty of water and consult a doctor immediately Do not induce vomiting
Back Strain:	As bags are heavy, prevent back & neck injuries by using bending & lifting manouevres

PERSONAL PROTECTIVE EQUIPMENT

Respiratory:	Dust mask where TLV is exceeded in line with SANS 1455 / EN & Govt. Gaz.1200 of 22/10/89
Eyes:	Eye and dust shields are optional. If preferable to wear fully sealing eye protection
Gloves:	Any type which prevents skin contact with product and undue perspiration
Other:	

ECOLOGICAL INFORMATION

Aquatic toxicity:	Non-toxic in small quantities. Large quantities especially in static water will result in pH increase up to pH12 or more. pH may result in death of aquatic life
FISH DAPHNIA ALGAE	
Biodegradability:	Cement hardens to form a crust. It will dissolve slowly in acidic conditions
Bio-Accumulation:	As above
Mobility:	Dry powder is readily air entrained. When wet it is sticky

TRANSPORT INFORMATION

U.N. Number:	Portland Cement and cement blends are not hazardous cargo in terms of the International Maritime Dangerous Goods Code 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.
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