

EDCO TECHNOLOGIES INCORPORATED

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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL IDENTIFICATION

MATERIAL NAME: Ectoflex 646 Powder Component B

MANUFACTURER	SUPPLIER
Edco Technologies Inc.	Edco Technologies Inc.
20 Apple Creek Blvd.	1 Precision Rd.
Suite A1-177	Etobicoke, Ontario
Markham, Ontario L3R 5Z1	M9W 5H3
EMERGENCY PHONE: (905) 534-3326	EMERGENCY PHONE: (905) 534-3326
(416) 434-9394 (after hours, in case of emergency only)	

CHEMICAL NAME	Cement and Silica Sand
CHEMICAL FAMILY	Cement
TRADE NAME	Ectoflex 646
CHEMICAL FORMULA	NA
MATERIAL USE	Mortar Mix
MOLECULAR WEIGHT	NA

SECTION II - HAZARDOUS INGREDIENTS DEFINED IN HPA

HAZARDOUS INGREDIENTS	CAS NUMBER	PERCENT (WT)	LC50/LD50 (rat, oral)
Portland Cement	65997-15-1	50%	Not available
Silica (Quartz)	14808-60-7	50%	Not available

SECTION III - PHYSICAL DATA

PHYSICAL STATE	Odourless dry white or grey powder
ODOUR/APPEARANCE	Odourless
SPECIFIC GRAVITY	NA
VAPOUR PRESSURE (MM)	NA
EVAPORATION RATE	NE
SOLUBILITY IN WATER	Dispersible
% VOLATILE (VOLUME)	NE
COEFFICIENT OF WATER/OIL DISTRIBUTION	NE
ODOUR THRESHOLD (PPM)	NE
VAPOUR DENSITY (AIR=1)	NE
BOILING POINT	NE
FREEZING POINT	0°C
PH	NE

SECTION IV - FIRE AND EXPLOSION HAZARD	
FLAMMABILITY	Product is not flammable and will not burn under normal conditions.
UNDER WHICH CONDITIONS	NA
MEANS OF EXTINCTION	If a fire occurs around this product, use whatever means of extinction are appropriate to the type of fire.
SPECIAL PROCEDURES	None
FLASH POINT (°C)	None
AUTOIGNITION TEMPERATURE	NA
HAZARDOUS COMBUSTION PRODUCTS	None (However, see Hazardous Decomposition Products)
UPPER EXPLOSION LIMIT	NA
LOWER EXPLOSION LIMIT	NA
STATIC DISCHARGE	No
SENSITIVITY TO MECHANICAL IMPACT	No
SENSITIVITY TO STATIC DISCHARGE	No

SECTION V - REACTIVITY DATA	
CHEMICAL STABILITY	Stable, hazardous polymerization will not occur.
IF NO, UNDER WHAT CONDITIONS	NA
INCOMPATIBILITY TO OTHER SUBSTANCES	Product will react with acids.
IF YES, WHICH ONES	Reaction with acids will cause a neutralization reaction resulting in the generation of heat and the release of Carbon Dioxide gas. Heating at high temperature (greater than 825°C) will decompose this product and liberate carbon dioxide.
REACTIVITY AND UNDER WHAT CONDITIONS	None
HAZARDOUS DECOMPOSITION PRODUCTS	Extreme heat or reaction with acid generates Carbon Dioxide.

SECTION VI - TOXICOLOGICAL PROPERTIES					
PRIMARY ROUTE OF EXPOSURE					
X	SKIN CONTACT	X	SKIN ABSORPTION	X	EYE CONTACT
X	INHALATION ACUTE	X	INHALATION CHRONIC	X	INGESTION

EFFECTS OF ACUTE EXPOSURE	
EYES	Dust may cause irritation if large amounts are not washed out immediately, corneal damage may occur.
SKIN	May cause irritation
INHALATION	May cause coughing or sneezing and irritation of respiratory tract
INGESTION	Swallowing of large amounts may cause irritation or burns of mouth and throat, gastrointestinal irritation, nausea and vomiting.

EFFECTS OF CHRONIC EXPOSURE	
SKIN	Prolonged or repeated skin contact may cause drying or cracking skin.
INHALATION	Heavy overexposures to dust may cause lung problems such as pneumoconiosis (dust build up in the lung). Crystalline silica can cause serious lung damage (silicosis) if inhaled in large amounts.

ADDITIONAL HEALTH INFORMATION	
ACGIH-TLV-TWA	10 mg/M3 for Portland Cement & 0.1 mg/M3 for Silica
IRRITANCY OF MATERIAL	Yes
SENSITIZATION OF MATERIAL	None known
SYNERGISTIC MATERIALS	In general, cigarette smoking is known to increase the risk of lung damage.
CARCINOGENICITY	IARC found limited evidence in humans and sufficient evidence in animals that inhalation of silica dust could contribute to lung cancer. These effects seem to be associated in humans with silicosis.
REPRODUCTIVE EFFECTS	None known
TERATOGENICITY	None known
MUTAGENICITY	None known

SECTION VII - FIRST AID MEASURES	
EYES	Flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention immediately.
SKIN	Wash skin with mild soap and water and rinse thoroughly. See a doctor if irritation persists.
INHALATION	Remove victim to fresh air. If breathing difficulty does not improve rapidly, get patient to a doctor.
INGESTION	If a large amount is ingested, and if the patient is conscious, drink plenty of water, then induce vomiting. Get medical attention. Never give anything by mouth if patient is unconscious.

SECTION VIII - SPECIAL PROTECTION INFORMATION	
PROTECTIVE GLOVES	Protective gloves should be worn in situations where prolonged skin contact may occur. Work clothes should prevent skin contact with dust.
EYE PROTECTION	Glasses or goggles recommended.
RESPIRATORY PROTECTION	Adequate ventilation must be provided where necessary, if this is not possible, a suitable NIOSH approved dust respirator suitable for Silica should be used
OTHER PROTECTIVE EQUIPMENT	Not normally required
ENGINEERING CONTROLS	Take care that ventilation does not simply blow dust throughout work area.

SECTION IX - SPILL OR LEAK INFORMATION	
ENVIRONMENTAL RELEASES	Those involved in clean up of spills should use respiratory protection for airborne dust. Vacuum or scoop up spilled material for recovery or disposal. Wetting the spill with a water spray will help minimize exposure to airborne dust.
WASTE DISPOSAL	This material is not considered to be a hazardous waste and may be disposed of in a site suitable for industrial waste.

SECTION X - HANDLING AND STORAGE INFORMATION	
HANDLING PROCEDURES	Use appropriate steps (ventilation, dust mask, wetting) to avoid breathing large amounts of dust. Avoid unnecessary skin contact and wash thoroughly after handling.
STORAGE REQUIREMENTS	Store in a dry area.

SECTION XI - REGULATORY INFORMATION

WHMIS CLASSIFICATION	Product not subject to WHMIS registration.
TDG CLASSIFICATION	Not regulated
UN NUMBER	Not regulated
TSCA (U.S.A.)	All ingredients on TSCA inventory.
CEPA (Canada)	All ingredients on DSL (Domestic Substances List).

HMIS Rating	Health = 1	Flammability = 0	Reactivity = 0
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SECTION XII - PREPARATION INFORMATION

PREPARED BY	Rolf Brockman
TELEPHONE NUMBER	(905) 534-3326
DATE OF PREPARATION	January 15, 2013
ADDITIONAL NOTES	NA = not applicable NE = not established

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