

MATERIAL SAFETY DATA SHEET

SECTION I		DATE: January 2008
MANUFACTURER'S NAME Ebonex Corp.	EMERGENCY TELEPHONE NO. (313) 388-0060	
ADDRESS 2380 S. Wabash, PO Box 3247, Melvindale Michigan 48122		
CHEMICAL NAME AND SYNONYMS Bone Charcoal	TRADE NAME Ebonex 3D, CEM	
CHEMICAL FAMILY Tricalcium Phosphate	FORMULA C-(~12%) CA₃(PO₄)₂ = (~88%) *	

SECTION I-A

* see section IX

<u>TOXIC SUBSTANCES CONTROL ACT</u>		<u>HMIS RATING</u>	
SUBSTANCE:	Bone Black	HEALTH	0
CAS REGISTRY NO.:	8021-99-6	FLAMMABILITY	0
CODE DESIGNATION:	A 296-8129	REACTIVITY	0
PREFERRED SUBSTANCE NAME:	(C.I. Pigment Black 9)	PERSONAL PROTECTION	A

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	CAS #	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS Carbon Black *	30	1333-86-4	BASE METALS		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS AND GASES				%	TLV (UNITS)
SARA Title III Section 313: Not Listed				N.A.	N.A.
* Carbon Black has been evaluated by IARC as possibly carcinogenic to humans (Group 2B)					

SECTION III PHYSICAL DATA

BOILING POINT (°F)	SPECIFIC GRAVITY (H ₂ O = 1)
VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY WEIGHT ~ 12% @ 870° C
VAPOR DENSITY	EVAPORATION RATE
SOLUBILITY IN WATER Insoluble	
APPEARANCE AND ODOR Black, Finely Ground Solid - ~ 45 lb/ft³	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) N.A.	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA Water Fog or Spray			
SPECIAL FIRE FIGHTING PROCEDURES None (Bone Char Treated As Wood Fires)			
AUTO IGNITION TEMP. (C°); Indefinite Approximation - Glows Red Heat			
UNUSUAL FIRE AND EXPLOSION HAZARDS None (Smolders Like Charcoal)			
Care should be taken to protect against CO and CaO			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE **No threshold limit value established by (ACGIH) American Congress of Governmental Industrial Hygienists**

EFFECTS OF OVER EXPOSURE **No specific health effects are known to occur from inhalation of bone char. Prolonged inhalation of high concentrations may lead to a deposition of tricalcium phosphate crystals in the lung tissue.**

PRIMARY ROUTE OF BODY ENTRY **Inhalation**

EMERGENCY AND FIRST AID PROCEDURES **If dust enters eye, flush out with large quantities of running water. Obtain medical attention if irritation persists.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE **No documented cases of industrial illness from exposure to bone char.**

(NTP - IARC) Has not determined bone char to be carcinogenic

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE	X	CONDITIONS TO AVOID
	STABLE		
INCOMPATIBILITY (Materials to avoid)		Phosphate content is dissolved in acids.	
HAZARDOUS DECOMPOSITION PRODUCTS		CO, CO₂, Bone Black will not support combustion.	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Goggles should be worn to keep fine dust out of eyes. Use vacuum if possible.

WASTE DISPOSAL METHOD
**Return material to container. Can also be dumped to landfill.
 Empty containers may be incinerated or discarded with general trash.**

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATION PROTECTION (Specify type)		Nuisance dust respirator recommended	
VENTILATION	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES		EYE PROTECTION Goggles	
OTHER PROTECTIVE EQUIPMENT		None	

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING **There are no special requirements for storage.**

OTHER PRECAUTIONS