

# MATERIAL SAFETY DATA SHEET

<b>SECTION I</b>		DATE: <b>January 2008</b>
MANUFACTURER'S NAME <b>Ebonex Corp.</b>	EMERGENCY TELEPHONE NO. <b>(313) 388-0060</b>	
ADDRESS <b>2380 S. Wabash, PO Box 3247, Melvindale Michigan 48122</b>		
CHEMICAL NAME AND SYNONYMS <b>Bone Charcoal</b>	TRADE NAME <b>Ebonex TE-Special</b>	
CHEMICAL FAMILY <b>Tricalcium Phosphate</b>	FORMULA <b>C-(~12%) CA<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> = (~88%) *</b>	

## SECTION I-A

**\* see section IX**

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

## SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	CAS #	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS <b>Carbon Black *</b>	<b>1</b>	<b>1333-86-4</b>	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)
<b>SARA Title III Section 313: Not Listed</b>				<b>N.A.</b>	<b>N.A.</b>
<b>* Carbon Black has been evaluated by IARC as possibly carcinogenic to humans (Group 2B)</b>					

## SECTION III PHYSICAL DATA

BOILING POINT (°F)	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)
VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY WEIGHT <b>~ 12% @ 870° C</b>
VAPOR DENSITY	EVAPORATION RATE
SOLUBILITY IN WATER <b>Insoluble</b>	
APPEARANCE AND ODOR <b>Black, Finely Ground Solid - ~ 45 lb/ft<sup>3</sup></b>	

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

## 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	<b>X</b>	CONDITIONS TO AVOID
	STABLE		
INCOMPATIBILITY (Materials to avoid)		<b>Phosphate content is dissolved in acids.</b>	
HAZARDOUS DECOMPOSITION PRODUCTS		<b>CO, CO<sub>2</sub>, Bone Black will not support combustion.</b>	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	<b>X</b>	

## 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)		<b>Nuisance dust respirator recommended</b>	
VENTILATION	LOCAL EXHAUST	<b>X</b>	SPECIAL
	MECHANICAL ( General)		OTHER
PROTECTIVE GLOVES		EYE PROTECTION <b>Goggles</b>	
OTHER PROTECTIVE EQUIPMENT		<b>None</b>	

## SECTION IX SPECIAL PRECAUTIONS

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

OTHER PRECAUTIONS