

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE: **January 2008**

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>Cosmic Black #6, Cosmic Black #700</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

### TOXIC SUBSTANCES CONTROL ACT

SUBSTANCE: **Bone Black**  
CAS REGISTRY NO.: **8021-99-6**  
CODE DESIGNATION: **A 296-8129**  
PREFERRED SUBSTANCE NAME: **(C.I. Pigment Black 9)**

### HMIS RATING

HEALTH **0**  
FLAMMABILITY **0**  
REACTIVITY **0**  
PERSONAL PROTECTION **A**

## SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	CAS #	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS	<b>Carbon Black *</b>	<b>5</b>	<b>1333-86-4</b>		
CATALYST			BASE METALS		
VEHICLE			ALLOYS		
SOLVENTS			METALLIC COATINGS		
ADDITIVES			FILLER METAL PLUS COATING		
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 <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>			

**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	<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