

## **MATERIAL SAFETY DATA SHEET**

### **PRIMARY COLOR- BLACK**

#### **SECTION 01: PRODUCT IDENTIFICATION**

<b>Product Identifier:</b>	Iron Oxide Black
<b>Product Use:</b>	Concrete Color, BC-03, BC-23, PC-07, PC-14, PC-15
<b>Manufacturer's Name:</b>	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
<b>Supplier's Name</b>	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
<b>Preparation Date of MSDS:</b>	July 7 <sup>th</sup> , 2008
<b>Revision Date of MSDS:</b>	April 13 <sup>th</sup> , 2011
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#### **SECTION 02: HAZARDOUS INGREDIENTS**

<b>Ingredients:</b>	<b>%</b>	<b>CAS#</b>	<b>LD/50</b>	<b>ACGIH TLV</b>	<b>Comments</b>
Iron Oxide Black	99.0	1317-61-9 (May also be described as 12227-89-3)	>5000 mg/kg (rat)	10 mg/m <sup>3</sup>	NA

#### **SECTION 03: HAZARDOUS IDENTIFICATION**

<b>Route of Entry:</b>	Skin= Yes, Eye Contact= Yes ,Inhalation= Yes, Ingestion= No,
<b>Skin Contact:</b>	Possible Irritation
<b>Skin Absorption:</b>	Not Established
<b>Eye Contact:</b>	Eye contact by larger amounts of powder may cause moderate eye irritation.
<b>Inhalation:</b>	Dust can cause lung irritation, coughing or sneezing.
<b>Ingestion:</b>	No adverse effects expected.
<b>Emergency Overview:</b>	NA
<b>WHMIS Symbols:</b>	Not Controlled
<b>Potential Health Effects:</b>	Repeated and prolonged exposures to iron oxide dust may cause a benign pneumoconiosis called siderosis.

#### **SECTION 04: FIRST AID MEASURES**

<b>Skin Contact:</b>	Wash with soap and water immediately and rinse thoroughly. If irritation persists consult a physician.
<b>Eye Contact:</b>	Remove any contact lenses at once. Flush eyes with water for 5- 10 minutes. If eye irritation persists, get immediate medical attention.
<b>Inhalation:</b>	Remove to fresh air if swallowed. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained,
<b>Ingestion:</b>	If large quantities are ingested, seek medical advice.

#### **SECTION 05: FIRE FIGHTING MEASURES**

<b>Flammable (Yes / No)</b>	No
<b>Yes</b>	NA
<b>Means of Extinction</b>	Use appropriate extinguishing media for surrounding fire. May be subject to slow oxidation if stored at temperatures above 140 F. If oxidation should occur, heat will be liberated which could cause surrounding combustibles to burn.
<b>Flash Point (°C / Method)</b>	NA
<b>Upper Flammable Limit (% by Volume)</b>	NA
<b>Lower Flammable Limit (% by Volume)</b>	NA
<b>Autoignation Temperature (°C)</b>	NA

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Explosion Data- Sensitivity to Impact	NA
Explosion Data- Sensitivity to Static Discharge	NA
Hazardous combustion Products	None under normal conditions
Special Fire Fighting Procedures	NA

### SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	If spilt, collect and reuse where possible, Wear dust-proof goggles and PVC/rubber gloves. Where heavy contamination is possible and where an inhalation risk exists; wear a Class P1 (Particulate) respirator and coveralls. Absorb with moist sand or similar and place in sealable containers for disposal.
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### SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Maintain good personal hygiene. Avoid breathing dust. Wash thoroughly after handling. Wash or vacuum clothing that may have become dusty. Ventilate adequately, otherwise wear an appropriate breathing apparatus.
Storage requirements	Store in cool, dry, well ventilated area, removed oxidizing agents, acids, carbon monoxide, food stuffs. Ensure containers are adequately labeled and protected from physical damage.

### SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	10 mg/m3
	OSHA PEL	15 mg/m3
	Other	NA
Engineering Controls	General	Ensure natural adequate ventilation in work area.
	Local Exhaust	Local exhaust ventilation as necessary to control any air contaminants, to within their TLVs.
	Other	Minimize dust generation and exposure.
Personal Protective Equipment	Gloves	Rubber or PVC gloves
	Respirator	If dusty conditions prevail, wear a Class P1 (Particulate) respirator.
	Eye	Wear dust-proof goggles
	Footwear	Not specified.
	Clothing	When using large quantities or where heavy contamination is likely, wear coveralls.
	Other	Eye wash facility should be in close proximity.

### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	powder
Odor and Appearance	No odor, black powdery appearance
Odor Threshold (ppm)	NA
Specific Gravity	4.8 – 5.0 (H2O= 1)
Vapor Density (air = 1)	NA
Vapor Pressure (mmHg)	NA
Evaporation Rate	NA
Flammability Class	Non-flammable
Boiling Point °C	NA
Melting Point °C	>1000 C
Volatile % By Weight	1.0 % max.
PH	5.0 – 8.5

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Coefficient of Water / Oil Distribution	NA
Solubility in Water	1.0 % max.

### SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable, under normal condition
Incompatibility With Other Substances	Incompatible with oxidizing agents (eg. Hypochlorite's, peroxides), acids (eg. Hydrochloric acid) and carbon monoxide.
Reactivity	See above
Hazardous Decomposition Products	May evolve toxic gases / fumes (iron oxide) when heated to decomposition.

### SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Refer to route of entry, Section 3
Effects on Chronic Exposure	Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica.
Irritancy of Product	Mild irritant
Skin Sensitization	NA
Respiratory sensitization	NA
Eye Sensitization	Possible irritation
Ingestion	No adverse effects expected
Carcinogenicity	NA
Other Toxicity Information	NA
IARC (1, A2 or 2B)	Not listed
ACGIH (A1, A2 or A3)	NA
Reproductive Toxicity	No reproductive effects.
Teratogenicity	Not Established
Embryotoxicity	Not Established
Mutagenicity	Not Established
Name of Synergistic Products / Effects	NA

### SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	The main component of this product occurs naturally in the earth's crust. It is not anticipated to cause any adverse effects to plants or animals.
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### SECTION 13: DISPOSABLE CONSIDERATION

Waste Disposal	For small amounts, cover with moist sand or similar, collect and dispose of to an approved landfill site. Avoid generating dust. Contact manufacturer for additional information.
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### SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	NA
PIN	Not Regulated
TDG	Not Regulated
DOT	Not Regulated
IMO	Not Regulated
ICAO	NA

# CONCRETECH

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ERAP	NA
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### **SECTION 15: REGULATORY INFORMATION**

<b>WHMIS Classification</b>	Not Controlled
<b>OSHA</b>	See section 2
<b>Other</b>	NA
<b>TSCA</b>	Not Regulated
<b>DSL / TOSCA</b>	Not Regulated

### **SECTION 16: OTHER INFORMATION**

<b>Regulatory Information</b>	
<b>SARA &amp; WHMIS</b>	These products are not considered as a hazardous substance as defined by SARA title 111 regulations (40 CFR 372).
<b>SARA Section 313 Listed Ingredients</b>	These products do not contain any substance that is subject to the reporting requirements of 40 CFR 372. SARA Classification: Listed.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.