

CONCRETECH

106, 2567 - 192 STREET, SURREY, BC, V3S 3X1

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MATERIAL SAFETY DATA SHEET

PRIMARY COLOR- ORANGE PC-05

SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Iron Oxide Orange
Product Use:	Concrete Color, P-05
Manufacturer's Name:	Concretech #106 2567 19 Street, Surrey BC V3S 3X1, Canada – Emergency Telephone Number 1-888-503-6780
Supplier's Name	Concretech #106 2567 19 Street, Surrey BC V3S 3X1, Canada – Emergency Telephone Number 1-888-503-6780
Preparation Date of MSDS:	July 1st, 2009
Revision Date of MSDS:	April 13, 2011
MSDS Prepared By:	Farhad Kazemian
Phone Number of Preparer:	1 877 952 0057

SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	%	CAS#	LD/50	ACGIH TLV	Comments
Iron Oxide	90.0	Mixture of 51274-00-1 and 1332-37-2	NA	15 mg/m3	NA

SECTION 03: HAZARDOUS IDENTIFICATION

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

SECTION 04: FIRST AID MEASURES

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

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	No
Yes	NA
Means of Extinction	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.
Flash Point (°C / Method)	NA
Upper Flammable Limit (% by Volume)	NA
Lower Flammable Limit (% by Volume)	NA
Autoignation Temperature (°C)	NA
Explosion Data- Sensitivity to Impact	NA
Explosion Data- Sensitivity to Static	NA

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Discharge	
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	15 mg/m ³
	OSHA PEL	15 mg/m ³
	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, Orange powdery appearance
Odor Threshold (ppm)	NA
Specific Gravity	4.8 – 5.0 (H ₂ O= 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
Coefficient of Water / Oil Distribution	NA
Solubility in Water	1.0 % max.

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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
ERAP	NA

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SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

Regulatory Information	
SARA & WHMIS	These products are not considered as a hazardous substance as defined by SARA title 111 regulations (40 CFR 372).
SARA Section 313 Listed Ingredients	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.