

CONCRETECH

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

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MATERIAL SAFETY DATA SHEET **PRIMARY COLOR- REDS PC-01, PC-02, PC-03, PC-04**

SECTION 01: PRODUCT IDENTIFICATION

| | |
|----------------------------------|---|
| Product Identifier: | Iron Oxide Red |
| Product Use: | Concrete Color, |
| 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: | November 25 th , 2003 |
| 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 | 94.0 | 1309-37-1 | 5500 mg/kg (Oral Rat) | 10 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

| | |
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| 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 |

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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. |
|---------------------------|--|

SECTION 07: HANDLING AND STORAGE

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|-----------------------------------|--|
| 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/m3 |
| | OSHA PEL | NA |
| | 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 long sleeve coveralls. |
| Other | Eye wash facility should be in close proximity. | |

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|---------------------------------|
| Physical State | powder |
| Odor and Appearance | No odor, red powdery appearance |
| Odor Threshold (ppm) | NA |
| Specific Gravity | 4.03 – 5.24 (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 | NA |
| Volatile % By Weight | 1.0 % max. |
| PH | 3.5 – 7.0 |

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| Coefficient of Water / Oil Distribution | NA |
| Solubility in Water | NA |

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 | NA |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
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| 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 | No adverse effects expected. |
| Respiratory sensitization | NA |
| Eye Sensitization | Possible irritation, dust may cause mechanical irritation. |
| Ingestion | No adverse effects expected. If conscious give large quantities of water to induce vomiting. Get medical attention. |
| 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

| | |
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| 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

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|----------------|---|
| 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. |
|----------------|---|

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 | NA |
| 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.