

# NewLook International, Inc. CEMENT COLOR

## Material Safety Data Sheet



### Section 1

#### PRODUCT & COMPANY IDENTIFICATION

**Product Name:** CEMENT COLOR Red 105  
**Synonyms:** Synthetic Iron Oxide, Iron (III) Oxide  
**CAS Number:** Mixture 1309-37-1 +51274-00-1  
**Manufacturer's Name:** NewLook International, Inc.  
**Manufacturer's Address:** 1525 South Gladiola Street, Suite 8, Salt Lake City, UT 84104  
**Information Phone:** NewLook International, Inc. 877.763.9566 or 801.886.9495  
**Emergency Contact:** For Emergency information, contact Chemtel, Inc. at 800.255.3924, Outside the USA at 813.248.0585

### Section 2

#### HAZARDOUS INGREDIENTS

**VOC Content:** 0 g/L VOC

OSHA Hazardous Ingredients (29CFR1910.1200):	CAS NUMBER:	WEIGHT %	Exposure Limits (8 Hrs. TWA) OSHA PEL:	Exposure Limits (8 Hrs. TWA) ACGIH TLV:
Iron Oxide (red)	1309-37-1	100%	Not established	Not established

Non-Hazardous Ingredients:	CAS NUMBER:	WEIGHT %	Exposure Limits (8 Hrs. TWA) OSHA PEL:	Exposure Limits (8 Hrs. TWA) ACGIH TLV:
None	-	-	Not Established	Not Established

### Section 3

#### HAZARDS IDENTIFICATION

Dry, red powder with little to no odor. Will not burn or react. Long-term inhalation can cause lung irritation or siderosis. Packaging material can burn or melt in fire, producing toxic smoke and fumes.

**HMIS Codes:** H=0, F=0, R=1, P=0 (0=Minimal & 4=Severe)

#### Potential Health Effects:

**Eyes:** Non-irritating to the eyes. Excessive exposure to airborne dust may reduce visibility and/or cause unpleasant deposits.

**Skin:** Will not irritate skin and is not likely to cause allergic skin reaction. Irritation to skin or mucous membranes can occur by direct mechanical action or by rigorous skin cleaning necessary for removal of dust.

**Ingestion:** Small amount (less than one ounce/30 grams) swallowed is not likely to cause injury. If large amount ingested, may cause gastric irritation, nausea and diarrhea. Seek medical attention.

**Inhalation:** Not a hazard in normal industrial use. Wear respirator and avoid breathing dust. As with all dusty materials, inhalation may cause respiratory irritation, sneezing, coughing and runny nose.

#### Human Effects and Symptoms of Overexposure:

**Acute:** To date, adverse health effects from exposure have not been reported among workers using this pigment. On the basis of Animal Toxicity Data (see Section 11), we would expect this product to be non-irritating to the eyes and skin and essentially non-toxic by ingestion. However, excessive exposure to airborne dust may reduce visibility and/or cause unpleasant deposits in the eyes, ears and nose. Irritation to skin or mucous membranes can occur by direct mechanical action or by rigorous skin cleaning necessary for removal of dust.

**Chronic:** Prolonged inhalation of amorphous silica may produce x-ray changes in the lungs without disability.

**Other effects:** No chronic effects are known from repeated exposure to iron oxide PIGMENT. Prolonged inhalation (6 to 10 years) of iron oxide FUME has been reported to produce changes in lung x-rays of exposed individuals. This condition, siderosis, is considered to be benign pneumoconiosis that exhibits no adverse health effects. Siderosis has been observed among occupations such as arc-welders where iron oxide FUMES are present. To the best of our knowledge, this condition has not been observed after prolonged exposure to iron oxide pigment. There is no Iron Oxide FUME contained in this product and none should be generated under normal use.

**Medical Conditions Aggravated by Exposure:** None known.

**Carcinogenicity:** IARC: Not listed; NTP: Not listed; OSHA: Not regulated

**Other:** IARC and NTP both contain listings for underground hematite mining. These listings are for the occupational exposures associated with the mining process, which include radon, a known lung carcinogen. NIOSH in Registry of Toxic Effects of Chemical Substances (RTECS) lists iron oxide as a suspect human carcinogen.

However, the IARC reference to underground hematite mining is the source for this classification. Based on information currently available, this product is not considered a carcinogen.

#### Section 4 FIRST AID MEASURES

**Eyes:** Flush with water, lifting eyelids periodically. Remove contact lenses. Continue flushing for 15 minutes or until eyes return to normal. Get medical attention if irritation develops or persists.

**Skin:** Wash with soap and water. Get medical attention if irritation develops or persists.

**Ingestion:** Swallowing less than an ounce (less than 30 grams) will not cause harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and contact medical personnel or poison control center immediately. Do not give anything by mouth to an unconscious person.

**Inhalation:** Move from dusty area to fresh air and get medical attention for any breathing difficulty. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get immediate medical attention.

#### Section 5 FIRE FIGHTING MEASURES

**Flammable Properties:** Not flammable

**Flash Point:** Will not flash

**Upper Explosive Limit (UEL):** Will not explode

**Lower Explosive Limit (LEL):** Will not explode

**Auto-ignition Temperature:** Exposure to excessive heat greater than 80°C (176°F) can cause portion of iron oxide black contained in this product to slowly auto-oxidize, which generates additional heat. Under certain conditions, this heat may be sufficient to cause the container or combustible materials stored nearby to ignite.

**Extinguishing Media:** This product is not combustible or flammable. Use extinguishing agents that are suitable to the surrounding fire; water spray, dry chemical, foam or CO<sub>2</sub>.

**Fire Fighting Instructions:** Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes and smoke inhalation.

#### Section 6 ACCIDENTAL RELEASE MEASURES

**Small Spill:** If dust is generated, use appropriate respiratory protection. Vacuum or scoop material into an appropriately marked container for re-use or disposal. Avoid excessive generation of dust.

**Large Spill:** Use recommended protective clothing and respiratory protection. Use shovel to reclaim material. Vacuum or scoop material into an appropriately marked container for re-use or disposal. Avoid excessive generation of dust. Spill area can be washed with water. Collect wash water for approved disposal. Prevent runoff from entering storm sewers and ditches which lead to natural waterways.

#### Section 7 HANDLING & STORAGE

**Storage:** Store dry at ambient temperature away from food and beverages, excessive heat or flame sources (furnace, kilns, boilers, etc.).

**Handling:** Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Avoid contact with moisture. Re-seal container immediately after use. Pallets (if applicable) are wrapped in polyethylene plastic. Removal may cause an electrostatic spark; therefore removal of the wrap should not be in the presence of flammable vapors.

Storage Temperature (Min/Max)..... : Ambient/50°C (122°F)  
Shelf Life ..... : Unlimited in closed container  
Special Sensitivity ..... : Excessive heat  
Other Precautions ..... : None. Use common sense.

#### Section 8 EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Maintain air levels below the recommended exposure limit using exhaust ventilation if necessary.

**Eyes:** Safety glasses.

**Skin:** Body-covering clothing. Rubber, plastic, leather or cloth gloves are suggested to facilitate personal hygiene.

**Respiratory Protection:** Workplace ambient dust concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH / MSHA approved respirator with dust pre-filter should be worn.

**Other:** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

**Work / Hygiene Practices:** Employees should wash their hands and face before eating, drinking or using tobacco products.

## Section 9 PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Solid red powder  
**Odor:** None  
**Physical State:** Dry powder  
**pH:** 4-7 in 50 gr/l H<sub>2</sub>O aqueous suspension; DIN 787/9  
**Vapor Pressure:** Not a vapor  
**Vapor Density:** Not a vapor  
**Boiling Point:** Not applicable  
**Freezing Point:** Not applicable  
**Melting Point:** Greater than 1000°C (1832°F)  
**Solubility in Water:** Insoluble  
**Specific Gravity (g/ml):** 3.8 to 4.1 @ 20°C (68°F); DIN 787/10  
**Bulk Density (kg/m<sup>3</sup>):** 350 to 600 @ 20°C (68°F)  
**Particle Size (microns):** 0.1 - 0.7  
**Volatile Organic Compounds:** None  
**Chemical Formula:** Fe<sub>2</sub>O<sub>3</sub>

## Section 10 STABILITY & REACTIVITY

**Chemical Stability (Conditions to Avoid):** Stable. Keep away from flames and heat. Exposure to excessive heat greater than 180°C (356°F) can cause portion of iron oxide yellow to convert to Iron Oxide Red (Fe<sub>2</sub>O<sub>3</sub>). Under certain conditions, this heat may be sufficient to cause the container or combustible materials stored nearby to ignite.

**Incompatibility (materials to avoid):** No known material incompatibilities.

**Decomposition Temperature F° (C°):** Does not decompose.

**Hazardous Decomposition Products:** None.

**Hazardous Polymerization:** Will not occur.

## Section 11 TOXICOLOGICAL INFORMATION

**Eyes:** Irritating to rabbit eyes  
**Skin:** Not irritating to rabbit skin Dermal, LD 50 not established for product  
**Ingestion:** Non irritating. The oral, LD 50 for rats is greater than 5000 mg/l  
**Inhalation:** Non irritating. LC 50 not established for product  
**Subchronic:** Data not established for product  
**Chronic / Carcinogenicity:** Data not established for this product  
**Other (Mutagenic, Teratogenic, Reproductive Tests):** "No carcinogenic effects were observed in mice, hamsters, or guinea pigs given ferric oxide intratraheally."

## Section 12 ECOLOGICAL INFORMATION

**Ecotoxicological Information:** Fish toxicity: Golden Orfe (*Leuciscus idus*) LCo greater than 1000 mg/l  
**Chemical Fate Information:** No appreciable bioconcentration is expected in the environment.

## Section 13 DISPOSAL CONSIDERATIONS

Material which cannot be re-used should be disposed in accordance with federal, state and local environmental control regulations at an authorized site. This product when discarded as sold is not a RCRA hazardous waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40CFR 261.20-24).

## Section 14 TRANSPORATION INFORMATION

DOT Shipping Name ..... : None  
 Technical Shipping Name ..... : Inorganic Oxide  
 DOT Hazardous Classification ..... : Non-Regulated  
 DOT Hazard Class ..... : Non-Regulated  
 DOT Identification Number ..... : None  
 DOT Labels Required ..... : None  
 DOT Placards Required ..... : None  
 UN Class ..... : None  
 UN / NA Number ..... : None  
 Freight Class ..... : Iron Oxide; NOI

**Section 15  
REGULATORY INFORMATION**

**CERCLA / SUPERFUND:** (40 CFR 117,302) Reportable Quantity (RQ): Not reportable. However, we recommend you contact local authorities to verify requirements for your project work site.

**Superfund Amendments and Reauthorization Act (SARA), Title III:**

Section 302: None  
 Section 311/312: Delayed Health Hazard

**State Regulations**

*California Proposition 65 Warning:* This product contains "chemicals" known to the state of California to cause cancer and birth defects or other reproductive harm.

CA = California safe drinking water and toxic enforce Act (Proposition 65)

MA = Massachusetts Hazardous Substance List

NJ4 = New Jersey Other – included in 5 predominant ingredients > 1%

PA3 = Pennsylvania Non-Hazardous present at 3% of greater

CN1 = Canada WHMIS Ingredient Disclosure List over 1%

Chemical Name	CAS	Concentration	State Code
Iron Oxide	1309-37-1	Above 98%	PA3, NJ4, CN1
Silicon Dioxide-Amorphous (SiO <sub>2</sub> )	7631-86-9	<1%	PA3, NJ4, MA
Arsenic	7440-38-2	< 100 ppm	CA, MA
Cadmium	7440-43-9	< 5 ppm	CA, MA
Mercury	7439-97-6	< 1 ppm	CA
Nickel	7440-02-0	< 400 ppm	CA, MA
Lead	7439-92-1	< 100 ppm	MA

*Note:* This information is based on random sample analysis. Actual content may vary from batch to batch.

**Section 16  
DISCLAIMER NOTICE**

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