

QC ColorTech-E: Reds, Yellows & Blacks



Material Safety Data Sheet

QC Construction Products
232 S. Schnoor Ave.
Madera, CA 93637

HMIS Ratings

Health: 0
Flammability: 0
Reactivity: 0
Personal Protection See VII
Equipment:

Emergency Telephone Number:
Chemtrec: 800.424.9300

Notice: The following information is accurate to the best of our knowledge and is offered in good faith. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in specific context of the intended use and determine whether they are appropriate.

I. IDENTIFICATION

Product Name: QC ColorTech-E: Reds, Yellows & Blacks
Synonymous: Synthetic iron oxide
Chemical Family: Inorganic oxide
Chemical Formula: Proprietary
D.O.T. Hazard Class: Mixture of Fe₂O₃ and/or Fe₃O₄, with CaCO₃ and sodium naphthalene sulfonate.
Appearance & Odor: Odorless powder, various colors.

II. COMPOSITION & EXPOSURE LIMITS

Component	Formula	CAS NO.	% by Weight
Limestone	CaCO ₃	1317-65-3	Proprietary
Hydrated ferric iron oxide	Fe ₂ O ₃ · H ₂ O	51274-00-1	Proprietary
Red iron oxide	Fe ₂ O ₃	1309-37-1	Proprietary
Black iron oxide	Fe ₃ O ₄	1317-61-9	Proprietary
Silicon dioxide, crystalline	SiO ₂	14808-60-7	<1

Hazardous Components	OSHA PEL. Respirable Dust	ACGIH TLV Total Dust
Silicon dioxide, crystalline	0.1 mg/m ³	0.1 mg/m ³
Limestone	5 mg/m ³	10 mg/m ³
Hydrated ferric iron oxide	10 mg/m ³	5 mg/m ³ (Iron oxides fume as Fe)
Red iron oxide	10 mg/m ³	5 mg/m ³ (Iron oxides fume as Fe)
Black iron oxide	10 mg/m ³	5 mg/m ³ (Iron oxides fume as Fe)

III. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1): 4.2 – 4.9
Boiling Point: N/A
Melting Point: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Evaporation Rate: N/A
Solubility In Water: Insoluble (Dispersible)
pH / 10% Solution: 4.0 – 7.0

IV. FIRE EXPLOSION & REACTIVITY DATA

Flash Point: N/A
Flammable Limits: N/A
Firefighting Media: Dry chemical water spray, form CO2
Special Firefighting Procedure: Exposure to excessive heat greater than 131 °F (55 °C) can cause this product to become unstable and slowly auto oxidize from Fe3O4 to Fe2O3, which generates additional heat. Under certain conditions the heat may be sufficient to cause combustible materials to ignite.
Unusual Fire Hazards: Slow oxidation at elevated temperatures may occur, which generates heat.
Reactivity: Stable
Incompatibilities: Strong oxidizing agents, strong acids.
Decomposition or Byproducts: None
Hazardous Polymerization: Will not occur
Conditions to Avoid: Storage at temperatures above 140 °F due to possible slow oxidation.

V. HEALTH HAZARD DATA

Routes of Entry: Inhalation: Yes
Skin Contact: No
Ingestion: Yes
Carcinogenicity: NTP? No IARC? No OSHA? No
Health Effect: TIV for nuisance particulate is 10 mg/m3 total dust, 5 mg/m3 respirable dust.
Skin Contact: No irritation at 500 mg/rabbit Id greater than 100 g/kg rat effects to eye no irritation at 50 mg/rabbit.
Aggravated Medical Conditions: Excessive exposure to airborne dust will result in effect similar to that of nuisance type dust that its particulate may reduce visibility and/or cause unpleasant deposits in the eyes, ears and nose. Injury to the skin or mucous membranes can occur by direct mechanical action or by rigorous skin cleaning.

Emergency and First Aid Procedures

Inhalation: Remove victim to fresh air.
Skin Contact: Wash with soap and water
Eye Contact: Flush with large amount of water, consult an eye physician.
Ingestion: Give two glasses of water and induce vomiting. Seek medical attention.

VI. SPILL PROCEDURES & WASTE DISPOSAL

Spill: Scoop up some means and place in waste container.
Waste Disposal: Material can be buried in an approved landfill or handled as inert waste in accordance with Federal, State and Local environmental control regulations.

Precautions for
Safe Handling
And Storage: Material can be handled as a normal solid waste.

Other Precautions: N/A

VII. PROTECTIVE CONTROL MEASURES

Respirator: Dust mask should be worn. If exposure limits are exceeded, use NIOSH approved dust respirator.

Ventilation: Remove airborne dust.

Special: N/A

Protective Gloves: Rubber, cloth or plastic gloves.

Eye Protection: Safety glasses or goggles.

Other Protective
Clothing Required: N/A

Work/Hygiene Practices

Don't store near food or drink. Wash exposed skin for hygiene purposes.

VIII. SPECIAL PRECAUTIONS

Store dry at ambient temperature away from food and drink.

Iron oxide fumes: 10mg/m³
Respirable Dust: 5 mg/m³

IX. TECHNICAL DATA

Fe ₂ O ₃ :	88-90%
Oil Absorption:	32
Specific Gravity:	4.23
Water Soluble Salts:	0.5
Loss on Ignition:	5.0
SiO ₂ + Al ₂ O ₃ :	5-7
pH:	4.0 – 7.0
Residue on 325 mesh	
Screen:	0.05