

Material Safety Data Sheet

Tuscan Stoneworx Accessories

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCTS COVERED BY THIS MSDS:

- Tuscan Tint (Iron Oxide Pigment)
 - Almond Willow
 - Antique Gray
 - Cashmere White (Natural)
 - Corn Silk
 - Double Latte
 - Lemon Chiffon
 - Linen
 - Papaya
 - Pioneer Mesa
 - San Simeon
 - Sicilian Sand
 - Soren Gray
 - Sunset
 - Sweet Cream
 - Designer Green
 - Designer Blue
 - Taupe
 - Red
 - Seville
 - Moss
 - Sienna
 - Tumble Weed
 - Tuscan Sands
 - Venetian Red
 - Wheat Cream
 - Blanched Almond
 - Desert Earth
 - Desert Sand
 - Dim Gray
 - Moccasin
 - Oyster Bisque
 - Palo Verde
 - Prairie Sands
 - Snow Drift
 - Stone Crest
 - Designer Yellow
 - Designer Orange
 - Black
 - Champagne
 - Terra Cotta
 - French Crème
 - Cobalt Blue

COMPANY CONTACT INFORMATION:

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Silicon Dioxide- Amorphous (SiO ₂)	<1%	7631-86-9	6 mg/m ³	10 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Black)	90% - 98%	1317-61-9	Not Established	Not Established

TERRA COTTA

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV

Silicon Dioxide	<1%	7631-86-9	6 mg/m ³	10 mg/m ³
Iron Oxide (Red)	25% - 75%	1309-37-1	Not Established	Not Established
Calcium Carbonate CaCO ₃	<5%	1317-65-3	15 mg/m ³	10 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Yellow)	25% - 75%	51274-00-1	Not Established	Not Established

TAUPE

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Silicon Dioxide	<4%	7631-86-9	6 mg/m ³	10 mg/m ³
Iron Oxide (Red)	10% - 90%	1309-37-1	Not Established	Not Established
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Yellow)	0% - 75%	51274-00-1	Not Established	Not Established
Iron Oxide (Black)	5% - 40%	1317-61-9	Not Established	Not Established

MOSS

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Chrome (III) Oxide	25-75%	1308-38-9	0.5 mg/m ³ *	0.5 mg/m ³ *
Chromic Acid & Chromate	<500 ppm		0.1 mg/m ³	
Calcium Carbonate CaCO ₃	<5	1317-65-3	6 mg/m ³	10 mg/m ³
Silicon Dioxide	<1	7631-86-9	15 mg/m ³	10 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Black)	5-50%	1317-61-9	Not Established	Not Established

CHAMPAGNE

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Silicon Dioxide	<4	7631-86-9	6 mg/m ³	10 mg/m ³
Iron Oxide (red)	10-90%	1309-37-1	Not Established	Not Established
Calcium Carbonate CaCO ₃	0-5%	1317-65-3	15 mg/m ³	10 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Black)	5-40%	1317-61-9	Not Established	Not Established
Iron Oxide (Yellow)	0-75%	51274-00-1	Not Established	Not Established

REDS

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (red)	95-99%	1309-37-1	Not Established	Not Established
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
None				

SEVILLE

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Silicon Dioxide	<1%	7631-86-9	6 mg/m ³	10 mg/m ³
Iron Oxide (Red)	25% - 75%	1309-37-1	Not Established	Not Established

Calcium Carbonate CaCO ₃	<5%	1317-65-3	15 mg/m ³	10 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Yellow)	25% - 75%	51274-00-1	Not Established	Not Established

FRENCH CREME

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Silicon Dioxide- Amorphous (SiO ₂)	<2%	7631-86-9	6 mg/m ³	10 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Iron Oxide (Yellow)	98% - 100%	51274-00-1	Not Established	Not Established

COBALT BLUE

OSHA Hazardous Ingredients (29CFR1910.1200):			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Cobalt metal, dust & fumes	<1%	1345-16-0	0.1 mg/m ³	0.02 mg/m ³
Non-Hazardous Ingredients:			Exposure Limits (8 Hrs. TWA)	
Ingredient	% (By Weight)	CAS #	OSHA PEL	ACGIH TLV
Cobalt Aluminate Blue Spinel	99% - 100%	1345-16-0	Not Established	Not Established

SECTION 3: HAZARDS IDENTIFICATION

BLACK:

EMERGENCY OVERVIEW: Dry, Black powder with little to no odor. Will not burn or react, but may auto-oxidize if exposed to heat in excess of 176°F (80°C) causing additional heat which may be sufficient to cause packaging to smolder or ignite. Long-term inhalation can cause lung irritation or siderosis. Packaging material can burn or melt in fire, producing toxic smoke and fumes.

TERRA COTTA:

EMERGENCY OVERVIEW: Dry, yellow, orange, or gold 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.

TAUPE:

EMERGENCY OVERVIEW: Dry, brown, or gold 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.

MOSS:

EMERGENCY OVERVIEW: Dry, green/black powder with little to no odor. Will not burn or react, but may auto-oxidize if exposed to heat in excess of 176°F (80°C) causing additional heat which may be sufficient to cause packaging to smolder or ignite. Long-term inhalation can cause lung irritation or siderosis. Packaging material can burn or melt in fire, producing toxic smoke and fumes.

CHAMPANGE:

EMERGENCY OVERVIEW: Dry, brown or gold 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.

REDS:

EMERGENCY OVERVIEW: 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.

SEVILLE:

EMERGENCY OVERVIEW: Dry, yellow, orange, or gold 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.

FRENCH CREME:

EMERGENCY OVERVIEW: Dry, yellow or gold 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.

COBALT BLUE:

EMERGENCY OVERVIEW: Dry, blue 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.

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 amounts (less than one ounce/30 grams) swallowed are not likely to cause injury. Ingestion of very large quantities may result in stomachache, vomiting, diarrhea, intestinal obstruction, and/or constipation. Seek medical attention.

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

HMS Codes: (0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Sever)

BLACK

Fire:	0
Health:	0
Reactivity:	1
Personal Protection Index:	0

TERRA COTTA

Fire:	0
Health:	0
Reactivity:	0
Personal Protection Index:	0

TAUPE

Fire:	0
Health:	0
Reactivity:	1
Personal Protection Index:	0

MOSS

Fire: 0
 Health: 0
 Reactivity: 0
 Personal Protection Index: 1

CHAMPAGNE

Fire: 0
 Health: 0
 Reactivity: 1
 Personal Protection Index: 0

REDS

Fire: 0
 Health: 0
 Reactivity: 0
 Personal Protection Index: 0

SEVILLE

Fire: 0
 Health: 0
 Reactivity: 0
 Personal Protection Index: 0

FRENCH CREME

Fire: 0
 Health: 0
 Reactivity: 0
 Personal Protection Index: 0

COBALT BLUE

Fire: 0
 Health: 0
 Reactivity: 0
 Personal Protection Index: 0

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. As with all dusty materials, inhalation may cause respiratory irritation, sneezing, coughing, and runny nose. Good personal hygiene and the use of protective creams will minimize this effect. To date, adverse health effects from exposure have not been reported among workers using this pigment.

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 is the Registry of Toxic Effects of Chemical Substances

(RTECS) lists Iron Oxide as a suspect in 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 eyes 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. Wash clothing before re-use.

INGESTION: Swallowing less than an ounce (less than 30grams) will not cause harm. For larger amounts, do not induce vomiting, but give one or two glasses of water (8 to 10oz / 240 to 300ml) to drink and contact medical personnel or poison control center immediately. Do not give anything by mouth if person is rapidly losing consciousness or is unconscious or convulsing.

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

CAUTION: FLAMMABLE PROPERTIES

Flammable Class: Not Flammable
Flash Point: Will not flash
LEL: Will not explode.
UEL: Will not explode.

BLACK

Auto Ignition: Exposure to excessive heat greater than 176°F (80°C) can cause the 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 bag or combustible materials stored nearby to ignite.

TERRA COTTA

Auto Ignition: Will not ignite. At temperatures greater than 356°F (180°C) the portion of Iron Oxide Yellow contained in this product will convert to Iron Oxide Red (Fe₂O₃).

TAUPE

Auto Ignition: Exposure to excessive heat greater than 176°F (80°C) can cause the 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 bag or combustible materials store nearby to ignite.

MOSS

Auto Ignition: Will not auto ignite. Exposure to excessive heat greater than 176°F (80°C) can cause the 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 bag or combustible materials stored nearby to ignite.

CHAMPAGNE

Auto Ignition: Exposure to excessive heat greater than 176°F (80°C) can cause the 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 bag or combustible materials stored nearby to ignite.

REDS

Auto Ignition: This is a heat stable material. Will not auto-ignite.

SEVILLE

Auto Ignition: Will not ignite. At temperatures greater than 356°F (180°C) the portion of Iron Oxide Yellow contained in this product will convert to Iron Oxide Red (Fe₂O₃).

FRENCH CRÈME

Auto Ignition: Will not ignite. At temperatures greater than 356°F (180°C) this product will convert to Iron Oxide Red (Fe₂O₃).

COBALT BLUE

Auto Ignition: This is a heat stable material. Will not auto-ignite.

EXTINGUISHING AGENTS: This product is not combustible or flammable. Use extinguishing agents that are suitable to the surrounding fire; water spray, dry chemical, foam or CO₂.

FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic fumes and irritating fumes and smoke inhalation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL

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. It is more effective to clean this product while dry by vacuuming or sweeping. However, 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.). Keep separate from substances subject to catalytic decomposition by dust, i.e. peroxides.

HANDLING: Avoid breathing dust. Avoid getting in eyes or on skin. Wash hands thoroughly after handling. Avoid contact with moisture. Re-seal bag immediately after use. Pallets 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:	None
Other Precautions:	None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Maintain air levels below the recommended exposure limit using process enclosure and exhaust ventilation if necessary. Supply sufficient replacement air to make up for air removed by exhaust systems. If engineering controls and work practices are not effective in controlling exposures, appropriate personal protective equipment including a NIOSH/OSHA approved dust respirator should be worn.

EYES: Wear Safety Glasses with side shields or goggles. Eye wash stations should be available in workplace.

SKIN: Wear body-covering clothing closed at wrists and ankles. Rubber, PVC, or Leather 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

BLACK

Appearance:	Solid Black Powder
Odor:	Odorless
Physical State	Dry Powder
pH.....	4-8 in 50 gr/l H ₂ 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)	4.0 to 4.8 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m ³)	600 to 800 @ 20°C (68°F)
Particle Size (microns)	0.3 – 0.6
Volatile Organic Compounds (VOC).....	None
Chemical Formula.....	Fe ₃ O ₄

TERRA COTTA

Appearance:	Solid Gold or Orange Powder
Odor:	Odorless
Physical State	Dry Powder
pH.....	4-7 in 50 gr/l H ₂ 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 ³)	350 to 600 @ 20°C (68°F)
Particle Size (microns)	0.1 - 0.7
Volatile Organic Compounds (VOC).....	None
Chemical Formula.....	Fe ₃ O ₄ + FeOOH

TAUPE

Appearance:	Solid Brown or Gold Powder
Odor:	Odorless
Physical State	Dry Powder
pH.....	5-9 in 50 gr/l H ₂ 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)	4.4 to 5.0 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m ³)	500 to 1100 @ 20°C (68°F)
Particle Size (microns)	0.3 - 0.6
Volatile Organic Compounds (VOC).....	None

Chemical Formula..... $\text{Fe}_3\text{O}_4 + \text{Fe}_2\text{O}_3 + \text{FeOOH}$

MOSS

Appearance:Solid Black/Green Powder
Odor:Odorless
Physical StateDry Powder
pH.....4-8 in 50 gr/l H_2O aqueous suspension; DIN 787/9
Vapor PressureNot a vapor
Vapor DensityNot a vapor
Boiling PointNot applicable
Freezing PointNot applicable
Melting Point.....Greater than 1000°C (1832°F)
Solubility in WaterInsoluble
Specific Gravity (g/ml)5.0 to 5.5 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m^3)800 @ 20°C (68°F)
Particle Size (microns)0.3 - 0.6
Volatile Organic Compounds (VOC).....None
Chemical Formula..... $\text{Cr}_2\text{O}_3 + \text{Fe}_3\text{O}_4 + \text{CaCO}_3$
C.A.S. Number.....Mixture

CHAMPAGNE

Appearance:Solid Brown or Gold Powder
Odor:Odorless
Physical StateDry Powder
pH.....5-9 in 50 gr/l H_2O aqueous suspension; DIN 787/9
Vapor PressureNot a vapor
Vapor DensityNot a vapor
Boiling PointNot applicable
Freezing PointNot applicable
Melting Point.....Greater than 1000°C (1832°F)
Solubility in WaterInsoluble
Specific Gravity (g/ml)4.4 to 5.0 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m^3)500 to 1100 @ 20°C (68°F)
Particle Size (microns)0.3 - 0.6
Volatile Organic Compounds (VOC).....None
Chemical Formula..... $\text{Fe}_3\text{O}_4 + \text{Fe}_2\text{O}_3 + \text{FeOOH} + \text{CaCO}_3$

REDS

Appearance:Solid Red Powder
Odor:Odorless
Physical StateDry Powder
pH.....4-8 in 50 gr/l H_2O aqueous suspension; DIN 787/9
Vapor PressureNot a vapor
Vapor DensityNot a vapor
Boiling PointNot applicable
Freezing PointNot applicable
Melting Point.....Greater than 1000°C (1832°F)
Solubility in WaterInsoluble
Specific Gravity (g/ml)4.4 to 5.0 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m^3)600 to 1000 @ 20°C (68°F)
Particle Size (microns)0.3 - 0.6
Volatile Organic Compounds (VOC).....None
Chemical Formula..... Fe_2O_3

SEVILLE

Appearance:Solid Gold or Orange Powder

Odor: Odorless
Physical State Dry Powder
pH..... 4-7 in 50 gr/l H₂O 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/m³) 350 to 600 @ 20°C (68°F)
Particle Size (microns) 0.1 - 0.7
Volatile Organic Compounds (VOC)..... None
Chemical Formula..... Fe₃O₄ + FeOOH

FRENCH CREME

Appearance: Solid Yellow Powder
Odor: Odorless
Physical State Dry Powder
pH..... 3.5-7.5 in 50 gr/l H₂O 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
Loss of Ignition (%) 13
Specific Gravity (g/ml) 4.1 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m³) 200 to 500 @ 20°C (68°F)
Particle Size (microns) 0.1 - 0.7
Volatile Organic Compounds (VOC)..... None
Chemical Formula..... FeOOH

COBALT BLUE

Appearance: Blue Powder
Odor: Odorless
Physical State Dry Powder
pH..... 10.0 ASTM D-153
Vapor Pressure Not applicable
Vapor Density Not applicable
Boiling Point Not applicable
Freezing Point Not applicable
Melting Point..... Not applicable
Solubility in Water Negligible
Specific Gravity (g/ml) 4.3 ASTM D-153
Bulk Density 35.7 lbs/solid gallon (4.28 Kg/L) (7)
Volatile Organic Compounds (VOC)..... None

SECTION 10: STABILITY & REACTIVITY

BLACK

CHEMICAL STABILITY: Stable. Keep away from flames and heat. Exposure to excessive heat greater than 176°F (80°C) can cause this product to slowly auto-oxidize, which generates additional heat. Under certain conditions, this heat may be sufficient to cause the bag or combustible materials stored nearby to ignite.

INCOMPATIBILITY (materials to avoid): No known material incompatibilities.



DECOMPOSITION TEMPERATURE F° (C°): Greater than 176°F (80°C).

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

TERRA COTTA

CHEMICAL STABILITY: Stable. Keep away from flames and heat. At temperatures greater than 356°F (180°C) the portion of Iron Oxide Yellow contained in this product will convert to Iron Oxide Red (Fe₂O₃).

INCOMPATIBILITY (materials to avoid): No known material incompatibilities.

DECOMPOSITION TEMPERATURE F° (C°): Does not decompose.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

TAUPE

CHEMICAL STABILITY: Stable. Keep away from flames and heat. Exposure to excessive heat greater than 176°F (80°C) can cause this product to slowly auto-oxidize, which generates additional heat. Under certain conditions, this heat may be sufficient to cause the bag 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

MOSS

CHEMICAL STABILITY: Stable. Keep away from flames and heat. Exposure to excessive heat greater than 176°F (80°C) can cause this product to slowly auto-oxidize, which generates additional heat. Under certain conditions, this heat may be sufficient to cause the bag or combustible materials stored nearby to ignite.

INCOMPATIBILITY (materials to avoid): No known material incompatibilities.

DECOMPOSITION TEMPERATURE F° (C°): Greater than 176°F (80°C).

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

CHAMPAGNE

CHEMICAL STABILITY: Stable. Keep away from flames and heat. Exposure to excessive heat greater than 176°F (80°C) can cause this product to slowly auto-oxidize, which generates additional heat. Under certain conditions, this heat may be sufficient to cause the bag 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

REDS

CHEMICAL STABILITY: This is a stable material.

INCOMPATIBILITY (materials to avoid): No known material incompatibilities.

DECOMPOSITION TEMPERATURE F° (C°): Does not decompose

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

SEVILLE

CHEMICAL STABILITY: Stable. Keep away from flames and heat. At temperatures greater than 356°F (180°C) the portion of Iron Oxide Yellow contained in this product will convert to Iron Oxide Red (Fe₂O₃).

INCOMPATIBILITY (materials to avoid): No known material incompatibilities.

DECOMPOSITION TEMPERATURE F° (C°): Does not decompose.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

TERRA COTTA

CHEMICAL STABILITY: Stable. Keep away from flames and heat. At temperatures greater than 356°F (180°C) the portion of Iron Oxide Yellow contained in this product will convert to Iron Oxide Red (Fe₂O₃).

INCOMPATIBILITY (materials to avoid): No known material incompatibilities.

DECOMPOSITION TEMPERATURE F° (C°): Does not decompose.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

COBALT BLUE

CHEMICAL STABILITY: This is a stable material.

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: Not 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-irritation. LC 50 not established for product.

SUBCHRONIC: Data not established for product.

CHRONIC/CARCINOGENICITY: Data not established for product.

OTHER (Mutagenic, Teratogenic, Reproductive Tests): The IARC monograph on underground hematite mining (1972) states, "No carcinogenic effects were observed in mice, hamsters, or guinea pigs given ferric oxide intratracheally."

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Fish Toxicity: Golden Orfe (*Leuciscus idus*) LCo greater than 1000 mg/l No harmful effects on *Escherichia Coli* at 1000mg/l. No harmful effect on *Pseudomonas Fluoresceus* at 10,000mg/l.

CHEMICAL FATE INFORMATION: No appreciable bio concentration 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 by an approved contractor. Product and packaging can be disposed of or recycled as non-hazardous waste. 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: TRANSPORTATION INFORMATION

DOT Shipping Name:.....None

Technical Shipping Name:Inorganic Oxide

DOT Hazardous Classification:.....Non-Regulated

DOT Hazardous 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 (Inorganic Oxide)

SECTION 15: REGULATORY INFORMATION

----- U.S. FEDERAL REGULATIONS -----

BLACK

OSHA: This product is considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) Due to potential to auto-oxidize (self-heat). See Section 5.

TERRA COTTA

OSHA: This product is not considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

TAUPE

OSHA: This product is considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) Due to potential to auto-oxidize (self-heat). See Section 5.

MOSS

OSHA: This product is considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) Due to potential to auto-oxidize (self-heat). See Section 5.

CHAMPAGNE

OSHA: This product is considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) Due to potential to auto-oxidize (self-heat). See Section 5.

REDS

OSHA: This product is not considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SEVILLE

OSHA: This product is not considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CHAMPAGNE

OSHA: This product is considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) See Section 5.

COBALT BLUE

OSHA: This product is not considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

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

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA), TITLE III:

Section 302 (Extremely Hazardous Substances): None

Section 311/312 (Hazard Categories): Delayed Health Hazard

Section 313 (Reportable Toxic Ingredients):

Chemical Name:	C.A.S.	Concentration
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BLACK – None Reportable

TERRA COTTA – None Reportable

TAUPE – None Reportable

MOSS ONLY – Chrome Compound <70% total chrome (Cr)

CHAMPAGNE – None Reportable

RED – None Reportable

SEVILLE – None Reportable

FRENCH CREME – None Reportable

COBALT BLUE – None reportable

T.S.C.A.: These products are listed on the TSCA Inventory.

----- **INTERNATIONAL REGULATIONS** -----

CANADIAN WHMIS:

- BLACK:** Not restricted/non-hazardous
- TERRA COTTA:** Not restricted/non-hazardous
- TAUPE:** Not restricted/non-hazardous
- MOSS ONLY:** Chrome (III) Oxide 1308-38-9 Approximately 25% - 75%
- CHAMPAGNE:** Not restricted/non-hazardous
- RED:** Not restricted/non-hazardous
- SEVILLE:** Not restricted/non-hazardous
- FRENCH CREME:** Not restricted/non-hazardous
- COBALT BLUE:** Not restricted/non-hazardous

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).

----- **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% or greater.
- CN1 = Canada WHMIS Ingredient Disclosure List over 1%

BLACK

Chemical Name:	C.A.S.	Concentration	State Code
Black Iron Oxide	1317-61-9	90-98%	PA3, NJ4
Silicon Dioxide-Amorphous (SiO ₂)	7631-86-9	<1%	PA3, NJ4
Lead	7439-92-1	<100 ppm	CA, MA
Cadmium	7440-43-9	<5 ppm	CA, MA
Arsenic	7440-38-2	<50 ppm	CA, MA
Copper	7440-50-8	<800 ppm	MA
Manganese	7439-96-5	<2000 ppm	MA
Mercury	7429-97-6	<1 ppm	CA
Nickel	7440-02-0	<400 ppm	CA, MA

TERRA COTTA

Chemical Name:	C.A.S.	Concentration	State Code
Iron Oxide Red	1317-61-9	25 to 75%	PA3, NJ4
Iron Oxide Yellow	51274-00-1	25 to 75%	PA3, NJ4
Calcium Carbonate CaCO ₃	1317-65-3	<5	PA3, NJ4
Silicon Dioxide-Amorphous (SiO ₂)	7631-86-9	2 to 4%	PA3, NJ4, MA
Lead	7439-92-1	<100 ppm	CA, MA
Cadmium	7440-43-9	<5 ppm	CA, MA
Arsenic	7440-38-2	<100 ppm	CA, MA
Mercury	7429-97-6	<1 ppm	CA
Nickel	7440-02-0	<400 ppm	CA, MA



TAUPE

Chemical Name:	C.A.S.	Concentration	State Code
Iron Oxide Red	1317-61-9	10 to 90%	PA3, NJ4
Iron Oxide Yellow	51274-00-1	0 to 75%	PA3, NJ4
Iron Oxide Black	1317-61-9	0 to 40%	PA3, NJ4
Silicon Dioxide-Amorphous (SiO ₂)	7631-86-9	2 to 4%	PA3, NJ4, MA
Lead	7439-92-1	<100 ppm	CA, MA
Cadmium	7440-43-9	<5 ppm	CA, MA
Arsenic	7440-38-2	<100 ppm	CA, MA
Mercury	7429-97-6	<1 ppm	CA
Nickel	7440-02-0	<400 ppm	CA, MA

MOSS

Chemical Name:	C.A.S.	Concentration	State Code
Chrome (III) oxide	1308-38-9	25 to 75%	PA3, MA, NJ4, CN1
Hexavalent Chromium (Cr+6) Leachable hexavalent chromium	18540-29-9	<500 ppm	CA, MA
Black Iron Oxide	1317-61-9	5 to 50%	PA3, NJ4
Calcium Carbonate CaCO ₃	1317-65-3	<5%	PA3, NJ4
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	CA, MA
Silicon Dioxide	7631-86-9	<1%	PA3, NJ4

CHAMPAGNE

Chemical Name:	C.A.S.	Concentration	State Code
Iron Oxide Red	1309-37-1	10 to 90%	PA3, NJ4
Iron Oxide Yellow	51274-00-1	0 to 75%	PA3, NJ4
Iron Oxide Black	1317-61-9	0 to 40%	PA3, NJ4
Calcium Carbonate CaCO ₃	1317-65-3	<5%	PA3, NJ4
Silicon Dioxide – Amorphous (SiO ₂)	1314-65-3	<5%	PA3, MA, NJ4
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	CA, MA

REDS

Chemical Name:	C.A.S.	Concentration	State Code
Iron Oxide Red	1309-37-1	98%	PA3, NJ4
Silicon Dioxide – Amorphous (SiO ₂)	1314-65-3	<1%	PA3, NJ4
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	CA, MA
Copper	7440-50-8	<800 ppm	MA

SEVILLE

Chemical Name:	C.A.S.	Concentration	State Code
Iron Oxide Red	1317-61-9	25 to 75%	PA3, NJ4
Iron Oxide Yellow	51274-00-1	25 to 75%	PA3, NJ4

Calcium Carbonate CaCO ₃	1317-65-3	<5	PA3, NJ4
Silicon Dioxide-Amorphous (S ₂ O ₂)	7631-86-9	2 to 4%	PA3, NJ4, MA
Lead	7439-92-1	<100 ppm	CA, MA
Cadmium	7440-43-9	<5 ppm	CA, MA
Arsenic	7440-38-2	<100 ppm	CA, MA
Mercury	7429-97-6	<1 ppm	CA
Nickel	7440-02-0	<400 ppm	CA, MA

FRENCH CREME

Chemical Name:	C.A.S.	Concentration	State Code
Iron Oxide Yellow	51274-00-1	98 to 100%	PA3, NJ4
Lead	7439-92-1	<50 ppm	CA, MA
Cadmium	7440-43-9	<5 ppm	CA, MA
Arsenic	7440-38-2	<50 ppm	CA, MA
Copper	7440-50-8	<350 ppm	MA
Manganese	7439-96-5	<300 ppm	MA
Nickel	7440-02-0	<200 ppm	CA, MA
Silicon Dioxide	7631-86-9	<2%	PA3, NJ4

COBALT BLUE

Chemical Name:	C.A.S.	Concentration	State Code
Cobalt Aluminate Blue Spinel	1345-16-	100%	N/A

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

SECTION 16: OTHER INFORMATION

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