

SAFETY DATA SHEET



HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

Section I - Product Identification

Date: 2016

Product Name:	QC ColorTech-E: Blue
Company	QC Construcion Products 11901, Gavin Rd, Laredo Tx, 78045
Chemical Name:	Cobalt Oxide
Chemical Family:	Inorganic oxide
Chemical Formula:	Proprietary
D.O.T. Hazard Class:	Co3O4, with CaCO3
Appearance & Odor:	Odorless powder, color Blue
Emergency Telephone Number:	CHEMTREC (800) 424-9300
Telephone Number for Information:	956 622 7677
Product Use:	

Section II - Hazards Identification

Hazard Symbol:



Emergency Overview: BLUE Powder. May cause coughing and wheezing. Dust may irritate respiratory tract. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry:

Inhalation :	May cause coughing and wheezing. Dust may irritate respiratory tract.
Eyes :	Dust may cause eye irritation. May cause mechanical irritation or abrasion. Direct contact may cause temporary redness and discomfort.
Ingestion :	May cause gastrointestinal irritation, nausea, and vomiting.
Skin :	May cause mild irritation.

Aggravated Medical Conditions: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure

Chronic Health Effects: Repeated and prolonged exposures to trivalent chromium compounds may cause delayed effects involving the respiratory system.

Section III - Product Composition

Composition	CAS Number	Weight %
Cobalt Oxide	1333-088-6	20 - 60
Titanium Dioxide	13463-67-7	20 - 60
Yellow Iron Oxide	51274-00-1	20 - 60
Iron Oxide Black	1317-61-9	20 - 60
Iron Oxide Red	1309-37-1	20 - 60
Limestone	1317-65-3	< 10
Silicon Dioxide crystalline	14808-60-7	< 10

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Section IV - First Aid Measures

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:	Do not induce vomiting unless advised by a physician. Call nearest poison control. Seek immediate medical assistance.

Section V - Fire Fighting Measure

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.

Section VI - Accidental Release Measures

Use appropriate protective equipment. Avoid contact with material. Dampen material with water to control dusting. Scoop up and transfer to appropriate container for disposal. Flush spill area with water.

Section VII - Handling and Storage

Prevent inhalation of dust and contact with skin and eyes. Clean hands thoroughly after handling. Precautions also apply to emptied containers. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store in sealed containers in a cool, dry, ventilated warehouse location.

Section VIII - Exposure Controls / Personal Protection

Personal Protection Equipment



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

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Section VIII - Exposure Controls / Personal Protection

Chemical Name:	CAS Number:	Regulación:	Limit:	Form:
TITANIUM DIOXIDE	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
IRON OXIDE BLACK	1317-61-9	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
COBALT OXIDE	1333-088-6	ACGIH TWA: OSHA PEL:	0.02 mg/m3 0.1 mg/m3	Total dust.
Yellow Iron Oxide	51274-00-1	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
Iron Oxide Red	1309-37-1	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.

Section IX - Physical and Chemical Properties

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

Section X - Reactivity / Estability

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.

Section XI - Toxicological Information

No Data Available

Section XII - Ecological Information

No Data Available

Section XIII - Disposal Considerations

Disposal Method : Not regulated under RCRA. Dispose of in compliance with state and local regulations. Do not incinerate.

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Section XIV - Transportation / Shipping Data

DOT Hazard Class:

Not regulated

Section XV - Regulatory Information

U. S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training, and access to written records. It is your legal duty to make all information in this **Material Safety Data Sheet** available to your employees.

State Regulations:

State of California **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**; WARNING: This product contains one or more chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

International Regulations:

Consult the regulations of the importing country.

Cobalt Oxide

1333-088-6

Hazard symbols: No significant hazard.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

OSHA Hazardous Components :	Titanium Dioxide	13463-67-7
	Yellow Iron Oxide	51274-00-1
	Iron Oxide Black	1317-61-9
	Iron Oxide Red	1309-37-1

MASS RTK Components :	Titanium Dioxide	13463-67-7
	Yellow Iron Oxide	51274-00-1
	Iron Oxide Black	1317-61-9
	Iron Oxide Red	1309-37-1

Penn RTK Components :	Titanium Dioxide	13463-67-7
	Yellow Iron Oxide	51274-00-1
	Iron Oxide Black	1317-61-9
	Iron Oxide Red	1309-37-1

NJ RTK Components :	Titanium Dioxide	13463-67-7
	Yellow Iron Oxide	51274-00-1
	Iron Oxide Black	1317-61-9
	Iron Oxide Red	1309-37-1

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Section XVI - Other Information

HMIS Rating :	HEALT	1	0 = Minimum	3 = Serious
	FLAMMABILITY	0	1 = Slight	
	REACTIVITY	0	2 = Moderate	4 = Severe
	PPE			

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Legend

ACGIH - American Conference of Governmental Hygienists PEL - Permissible Exposure Limit
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
RCRA - Resource Conservation and Recovery Act
DOT - Department of Transportation RTK - Right To Know
DSL - Domestic Substance List SARA - Superfund Amendments and Reauthorization Act
EPA - Environmental Protection Agency STEL - Short Term Exposure Limit
HMIS - Hazardous Materials Information System TLV - Threshold Limit Value
IARC - International Agency for Research on Cancer TSCA - Toxic Substances Control Act
MSHA - Mine Safety Health Administration TWA - Time Weighted Average
NDSL - Non-Domestic Substance List V - Volume
NIOSH - National Institute for Occupational Safety and Health VOC - Volatile Organic Compound
NTP - National Toxicology Program
WHMIS - Workplace Hazardous Materials Information System
OSHA - Occupational Safety and Health Administration

References:

CA: California	NOEC: No observable effect concentration
CAS: Chemical Abstract Services	NTP: National Toxicology Program
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980	OSHA: Occupational Safety and Health Administration
CFR: Code of Federal Regulations	PEL: Permissible exposure limit
DOT: Department of Transportation	PICCS: Philippine Inventory of Chemicals and Chemical Substances
EINECS: European Inventory of Existing Commercial chemical Substances	RCRA: Resource Conservation and Recovery Act
ENCS: Existing and New Chemical Substances	RTECS: Registry of Toxic Effects of Chemical Substances
IARC: International Agency for Research on Cancer	SARA: Superfund Amendments and Reauthorization Act
IBC: Intermediate Bulk Container	STEL: Short Term Exposure Limit
IECSC: Inventory of Existing Chemical Substances	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
IMDG: International Maritime Dangerous Goods	TLV: Threshold Limit Values
Inh: Inhalation	TWA: Time Weighted Average
IOC: Inventory of Chemicals	TSCA: Toxic Substance Control Act
KECI: Korean Existing Chemicals Inventory	WHMIS: Workplace Hazardous Materials Identification System
KECL: Korean Existing Chemicals List	1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015.
LC: Lethal Concentration	2. International Agency for Research on Cancer Monographs, searched 2015.
LD: Lethal Dose	3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb Databases, 2015 (Chempendium, HSDB, RTECs).
MA: Massachusetts	4. Material Safety Data Sheet from manufacturer.
MN: Minnesota	5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.
N/Ap: Not Applicable	5. US EPA Title III List of Lists
N/Av: Not Available	6. California Proposition 65 List
NIOSH: National Institute of Occupational Safety and Health	
NJ: New Jersey	

DISCLAIMER

This Safety Data Sheet was prepared by JBM Inc. using information provided by "QC" CONSTRUCTION PRODUCTS QUALITY ARCHITECTURAL CONCRETE. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. JBM Inc. and "QC" CONSTRUCTION PRODUCTS QUALITY ARCHITECTURAL CONCRETE expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process. This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of JBM Inc. and "QC" CONSTRUCTION PRODUCTS QUALITY ARCHITECTURAL CONCRETE.

Before using this product :

Completely read the QC Tech-Data Bulletin
Antiquing Release and the product label.

10.05M

QC ColorTech-E: Blue