



Safety Data Sheet

BLUE ZIRCON

1 – PRODUCT IDENTIFICATION

Product Name: BLUE ZIRCON

Product Use: COLOR FOR CRYSTAL GLASS GROUT JEWELS

DATE PREPARED: 4/13/2017

COMPANY:

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2 – HAZARDS IDENTIFICATION

Classification of the chemical in accordance with Standard 29 CFR 1910.1200 (US-GHS)

H315 H320: Causes skin and eye irritation H320: Causes eye irritation

Label Elements (Hazard Communication Standard 29 CFR 1910.1200 (US-GHS))

Signal Word: None: Non Hazardous

GHS Pictogram(s)

Precautionary Statement: not classified

GHS Health Classification: Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties.
Contact with the eyes or skin may cause mechanical irritation.

GHS Physical Classification: Hazards Not Classified

GHS Environmental Class: Not Classified

EU Statement: not classified

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical names	CAS No	Concentration
Cobalt Pigment	1345-16-0	1-10%
Calcium Aluminosilicate	65997-17-3	40-50%
Glitter – Polyester Terephthalate Based	25038-59-9	40-50%

Substance/Mixture: mixture

Synonym: BLUE ZIRCON

4 – FIRST-AID MEASURES

Description of first aid measures

In case of inhalation: If breathing is difficult, remove to fresh air and keep at rest in a comfortable position for breathing. If you feel unwell, seek medical attention

In case of skin contact: In case of skin contact, wash thoroughly with soap and water.

In case of eye: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs, get medical advice.

In case of ingestion: If large quantities are ingested, seek medical advice. Not a hazard under normal use conditions. Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention if necessary.

Most important symptoms/effects both acute and delayed: Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically and supportively

5 – FIRE-FIGHTING MEASURES

Extinguishing Media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Flash point: Not applicable

Auto ignition temperature: Not applicable

Specific protective equipment and procedures for firefighters: Wear self contained breathing apparatus and protective clothing

Specific chemical hazards: None

6 – ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not allow to enter sewers/surface or ground water

Methods for cleanup: For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of. Spills should be contained and placed in suitable containers for disposal

7 – HANDLING and STORAGE

Storage: Keep in a cool place. Keep container dry.

Handling: Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m³ - respirable particles and 10 mg/m³ - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved, air-purifying particulate respirator with N-95 filters.

Appropriate engineering controls: If needed use local exhaust ventilation to keep dust concentration below limits cited in this Section.

Personal Protective Equipment

Respiratory Protection: Use a properly fitted particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. Wear a respirator conforming to EN140 with type A/P2 filter or better.

Eye/Face protection: Wear appropriate chemical safety glasses/goggles.

Hand/Skin Protection: Wear appropriate protective gloves and clothing.

General Hygiene Considerations: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance: A free flowing powder.

Physical State: solid

Color: Blue

Odor: odorless

pH: 7.0-11.0

Melting Point: NA

Boiling Point: NA

Flash point: Not applicable

Flammability (solid,gas): Not flammable

Explosive Properties: Not explosive

Vapor Pressure: Not applicable

Vapor Density (AIR=1): Not applicable

Density: 1.8~2.8 g / cm³

Solubility in water: Insoluble

Partition Coefficient (n-octanol/water): NOT APPLICABLE

Auto-ignition temperature: Not applicable

Viscosity: Not applicable

10 – STABILITY and REACTIVITY

Reactivity: No hazardous reaction known under normal conditions of use

Chemical Stability: Stable under normal conditions

Hazardous Reactions: Stable under normal conditions

Conditions to avoid: NA

Incompatible materials: no known incompatible materials

Hazardous Decomposition.: na

11 – TOXICOLOGICAL INFORMATION

Acute Toxicity: None

Acute Oral Toxicity: LD50

Species: rat

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Acute Inhalation Toxicity: Based on available data the classification criteria are not met

Chronic Toxicity: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Irritation: may irritate eyes, skin, and respiratory tract

Sensitization: Non-sensitizing

Mutagenicity: Non-mutagenic

Carcinogenicity: Cobalt Compound CAS 7440-48-4: 2B Possibly carcinogenic to humans.*

*This product is the result of high temperature calcination of the component

substances. Due to its unique crystalline structure the properties of this finished material do not

necessarily reflect the properties of the component metals or oxides.

Reproductive toxicity: No known significant effects or critical hazards on reproduction.

Aspiration hazard: Not applicable

12 – ECOLOGICAL INFORMATION

Ecotoxicity: Based on available data, the classification criteria are not met

Persistence and degradability: Not applicable

Bioaccumulative potential: Not applicable

Mobility in soil: Not applicable

Results of PBT and vPvB assessment: The substance does not meet the criteria to be identified as PBT or vPvB

13 – DISPOSAL CONSIDERATIONS

Disposal considerations: Dispose in a safe manner in accordance with local / state / Federal regulations. Avoid release to the environment. It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

14 – TRANSPORTATION INFORMATION

DOT: Not regulated, not dangerous good.

Transport by sea (IMO / IMDG): Not regulated. Not dangerous good

Air transport (ICAO/ IATA): Not regulated. Not dangerous good

15 - REGULATIONS

Contents of this SDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

US Federal Regulations

TSCA Status: all components are listed or exempted

SECTION 302: None

SECTION 312

Acute: None

Chronic: None

Fire: None

Pressure: none

Reactive: None

SARA 313: none

Clean Water Act: not applicable

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

COBALT COMPOUND (CAS 7440-48-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

FDA: NA

US State Regulations

US. Massachusetts RTK - Substance List

COBALT COMPOUND (CAS 7440-48-4)

US. New Jersey Worker and Community Right-to-Know Act

COBALT COMPOUND (CAS 7440-48-4) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

COBALT COMPOUND (CAS 7440-48-4)

US. Rhode Island RTK

COBALT COMPOUND (CAS 7440-48-4)

US. California Proposition 65

Not Listed.

International regulations

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance with EU Directives/respective national laws.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials

The product has not classified as dangerous according to Directive 67/548/EEC, 1999/45/EC and Regulation (EC)

No.1272/2008.

National regulations

16 – OTHER INFORMATION

Additional Information: This Safety Data Sheet complies with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HCS-2012) and its adaptation of United Nations 'Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. **DISCLAIMER OF LIABILITY:** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.