

MATERIAL SAFETY DATA SHEET

ORANGE - ORANGE Ceramic Pigment

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Code: NA
Product Name: ORANGE Ceramic Pigment "Inclusion"

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Preparation: Colouring Substance/ Pigment for Ceramics

Pigments manufactured specifically for ceramic use, stable at high temperatures. As glazes and enamels can vary in composition, always test small batches before final use. Color Rare CERAMIC PIGMENTS are divided into two categories:

Ceramic "inclusion" pigments: A Zr-Si treatment (zirconium-silicon) is used, so that the pigment resists up to 1300 degrees C, without altering the colour (**Red, Orange & Violet** Color Rare Ceramic pigments).

Ceramic Spinel pigments (Yellow, Green, Blue & Turquoise Color Rare Ceramic pigments): mineral oxide with nickel and cobalt. These pigments can resist up to 1000 degrees C without altering the colour.

Note: Color Rare Pigments in the Collections of Ochres, Natural Earths & Oxides are suitable for ceramics, but changes in tint may occur after firing. For bright colors, it is preferable to use pigments manufactured specially for ceramic use as these are very stable at high temperatures.

1.3. Details of the Supplier of the Safety Data Sheet

Company: Color Rare Ltd 105-1725 Atmec Gatineau, QC J8R 0E7
Tel/Fax: 1-613-701-5022
Email: info@colorare.com

1.4. Emergency Telephone No.:

Canada Contact your local Provincial Poison Centre or 911

<http://www.capcc.ca/>

Ontario: 1-800-268-9017

Quebec: 1-800-463-5060

USA American Association of Poison Control Centers 1-800-222-1222
<http://www.aapcc.org/>

SECTION 2: Hazards Identification

NOT NECESSARY

2.1. Classification of the substance or mixture

Classification according to EC Regulation 1272/2008:

This product does not require classification and labelling as hazardous according to CLP/GHS.

Classification according to EC Regulation No. 67/548 or No. 1999/45:

The material is not subject to classification according to EC lists.

SECTION 3: Composition/Information on Ingredients

Non-hazardous components		
CAS: 102184-95-2 CE: 310-077-5	Silicic acid, zirconium salt, cadmium pigment-encapsulated	50-100%

Chemical Characterization: Cd-Zr-Si

Category: Inclusion

Hazardous Ingredients: NONE

SECTION 4: First-Aid Measures

Description of the First Aid Measures

After inhalation: Supply fresh air. If required give artificial respiration. Keep patient warm.

If breathing is difficult call a physician. Give artificial respiration in case breathing is not regular or if it has stopped. After skin contact: Wash with soap and rinse with plenty of water. If irritation continues consult a physician.

After eye contact: Rinse open eyes with plenty of water for at least 15 minutes. Consult physician.

After ingestion: Rinse mouth with water and give plenty of water to drink. Consult a physician.

Never give anything by mouth to an unconscious person. Do not induce vomiting.

General information: Seek medical attention in case of complaints.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Non-flammable product. Use extinguishing media for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Do not inhale fumes or dust.

5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2. Environmental precautions

No special measures required. The product is not dangerous for the environment. Do not discharge to the sewer or into the natural environment.

6.3. Methods and material for containment and cleaning up

Clean up with appropriate personal equipment and according with local regulations.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Instructions on safe handling: Avoid formation and deposit of dust. Provide adequate ventilation.
Hygienic measures: Wash hands at the end of work. Preventive skin protection recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool and dry place in well sealed, original packages.
Requirements for storage areas and containers: No special measures necessary.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

The product does not contain significant amounts of substances with threshold values to be monitored by workstation.

8.2. Exposure controls

Technical protective measures: The product does not contain significant amounts of substances with threshold values to be monitored by workstation.

Personal Protective Equipment

General protective measures: Do not inhale dust. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.

Respiratory protection: Dust mask recommended when very dusty (with particle filter P1). Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.

Protective glove material: Rubber or plastic gloves.

Eye protection: Safety glasses with protective shields (EN 166).

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: powder

Color: orange

Odor: odorless

pH-Value: 3.5-8

Melting temperature: NA

Boiling temperature: NA

Flash point: not combustible

Evaporation rate: not applicable

Flammability (solid, gas): non-flammable

Vapor pressure: not applicable

Vapor density: No information available.

Solubility in water: insoluble

Specific Gravity (H₂O=1): not available

density: 4-5 g/cm³

Auto-ignition temperature: not applicable

Viscosity, dynamic: not applicable

Explosive properties: Product is not explosive.

Oxidizing properties: no information available

Humidity: 0.5% maximum (ISO787/2)

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Water-soluble salts:	0.5% maximum (ISO787/3)
Residuals / sieve 45 m:	0.5% maximum (ISO787/7)
Acid resistance:	5 (scale from 1 to 5) Excellent solidity
Resistance to alkali:	5 (scale from 1 to 5) Excellent solidity
Thermal resistance:	1300 degrees C
Relative density:	4.0-5.0

SECTION 10: Stability and Reactivity

10.1. Reactivity

There are no reaction risks with other substances in normal conditions of use and storage.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid any source of ignition: heat, sparks, open flames. Protect from moisture. However, the usual precautions used for chemical products should be followed.

10.5. Incompatible materials Strong oxidants

Carbon monoxide
Performic acid

10.6. Hazardous decomposition products Toxic gases can be formed in the event of a heat-up or fire.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

This product is non-toxic.

SECTION 12: Ecological Information

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Not hazardous to the environment. However, product should not be disposed of into sewers or waterways and should be disposed of in accordance with local regulations.
Use this product according to good working practices. Avoid littering. Inform your local governing authorities, should the product reach waterways or sewers.

SECTION 13: Disposal Considerations

Reuse, when possible.
Ensure that disposal is in compliance with national and local regulations.
Can be disposed in a controlled dump.

SECTION 14: Transport Information

NO RESTRICTIONS

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Information not relevant

SECTION 15: Regulatory Information

This product is not a dangerous substance according to the concerned EEC regulations.

SECTION 16: Other Information

The information contained in this document is based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

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Product: **CERAMIC ORANGE**

This document must not be regarded as a guarantee on any specific product property. The use of this product is the responsibility of the user; therefore, users must, comply with the current health and safety laws and regulations. The producer is not liable for improper use of the product.