

# MATERIAL SAFETY DATA SHEET

OXYDE DE FER ORANGE – Orange Iron Oxide Pigment

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

### 1.1. Product Identifier

Code: NA  
Product Name: Orange Iron Oxide Pigment  
IC Color: NA

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

Use of the Substance/Preparation: Colouring Substance/ Pigment | Artists and Restoration Material

### 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@terrachrom.com](mailto:info@terrachrom.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

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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.

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### **SECTION 3: Composition/Information on Ingredients**

Hazardous Ingredients: NONE (Natural colorant)  
Chemical Formula  $\text{Fe}_2\text{O}_3$  and  $\text{Fe}_3\text{O}_4$  and  $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$   
CAS Number 1332-37-2  
EINECS Number 2151682

#### **Composition**

CAS Number Exposure Limits:  
Iron Oxide Red 1309-37-1; 1332-37-2 5 mg/m<sup>3</sup> 10 ppm  
Iron Oxide Black 1317-61-9 5 mg/m<sup>3</sup> 10 ppm  
Iron Oxide Yellow 51274-00-1 5 mg/m<sup>3</sup> 10 ppm

Acute – causes mechanical skin and eye irritation  
Chronic - prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On x-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as silica.

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### **SECTION 4: First-Aid Measures**

General information: No special first-aid measures required.

After inhalation: Take affected person to fresh air.  
After skin contact: Wash affected skin with soap and rinse with plenty of water.  
After eye contact: Flush eye with plenty of water. In case of discomfort seek medical help.  
After ingestion: If swallowed, dilute with water and induce vomiting. If in doubt or if symptoms persist, consult a physician.

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

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

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### **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.

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## **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.

### **6.3. Methods and material for containment and cleaning up**

Clean up with appropriate personal equipment. If the product enters a waterway or sewer, the appropriate water authority must be informed.

### **6.4. Reference to other sections**

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

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## **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 and labeled packages. Protect from heat and frost.

Requirements for storage areas and containers: No special measures necessary.

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## **SECTION 8: Exposure Controls/Personal Protection**

### **8.1. Control parameters**

WEL (8 hours) 10mg/m<sup>3</sup> – Inhalable

WEL (8 hours) 4mg/m<sup>3</sup> – Respirable

## 8.2. Exposure controls

Technical protective measures: Provide adequate ventilation.

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: Respiratory protection is advisable in case of dust formation.

Hand protection: Protective gloves (EN 374)

Eye protection: Safety glasses (EN 166)

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## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form: powder

Color: orange

Odor: odorless

pH-Value: 4.8-5.2

Melting temperature: >1000° C

Boiling temperature: not applicable

Flash point: not combustible

Evaporation rate: not applicable

Flammability (solid, gas): non-flammable

Vapor pressure: not applicable

Vapor density: No information available.

Density: TBD g/cm<sup>3</sup>

Solubility in water: insoluble

Auto-ignition temperature: not applicable

Viscosity, dynamic: not applicable

Explosive properties: Product is not explosive.

Oxidizing properties: no information available

Bulk density: not determined

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## 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

None, however the usual precautions used for chemical products should be followed.

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#### **10.5. Incompatible materials**

Information not available.

#### **10.6. Hazardous decomposition products**

Information not available.

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### **SECTION 11: Toxicological Information**

#### **11.1. Information on toxicological effects**

There are no known dangerous effects associated with the use of this product.  
The acute oral toxicity LD50 Oral (Rat) for Fe<sub>2</sub>O<sub>3</sub> is greater than 10 g/kg (Rat).  
This product is not considered to be a known or suspected carcinogen by NTP, IARC or OSHA

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### **SECTION 12: Ecological Information**

The product is a natural earth mineral constituent and will not produce ecological negative effects.  
The product is non-biodegradable.  
Use this product according to good working practices. Avoid littering. Inform your local governing authorities, should the product reach waterways or sewers.

#### **Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

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### **SECTION 13: Disposal Considerations**

Reuse, when possible.  
Ensure that disposal follows national and local regulations.  
Can be eliminated in a controlled dump.

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### **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)**

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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

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**SECTION 15: Regulatory Information**

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

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**SECTION 16: Other Information**

The product is a natural earth mineral constituent.

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.

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.