

**SAFETY DATA SHEET      EA-1226 RED IRON OXIDE**

Version: 2/2018

Date Revised: 08/06/2018

Date Issued: 09/13/05

**SECTION 1      IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY**
**1.1 Product identifier**

 Trade Name                      EA-1226 Red Iron Oxide  
 Chemical Name                Synthetic Red Iron Oxide

**1.2 Relevant identified uses of the substance or mixture**

Red pigment for personal care applications

**1.3 Details of the supplier of the safety data sheet**

 Manufacturer:                Color Techniques, Inc.  
                                      260 Ryan Street  
                                      South Plainfield, NJ 07080 USA  
 TELEPHONE:                908-412-9292  
 EMAIL:                        [mahmoud@colortechtechniques.com](mailto:mahmoud@colortechtechniques.com)  
 FAX:                             908-412-9339

**1.4 Emergency telephone number**

 For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night  
    Within USA and Canada: 1-800-424-9300 CCN203590  
    Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**SECTION 2      POSSIBLE HAZARDS**
**2.1 Classification of the substance or mixture**

Iron Oxides are not listed as hazardous substances or mixtures according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

GHS Classification:

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**2.2 Label elements**

No special labeling required

**2.3 Other Hazards**

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**SECTION 3      COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1 Substances**

INGREDIENT NAME	CAS NUMBER	EINECS	COLOUR INDEX	REACH
Iron Oxide Red, 100%	1309-37-1	215-168-2	77491	01-2119457614-35

**3.2 Mixtures**

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**SECTION 4      FIRST AID MEASURES**
**4.1 Description of first aid measures**

Eyes – flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

Skin – wash with soap and water.

Inhalation – remove to fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.

Ingestion – if swallowed, dilute with large amounts of water to induce vomiting. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

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. The tlv is set to protect against siderosis.

**4.3 Indications of any immediate medical attention and special treatment needed**

Eyes – may cause mechanical irritation

Skin – none

Inhalation – low health risk by inhalation. Treat as nuisance dust.

Oral Id50 – greater than 10 g/kg (rat)

**SECTION 5      FIRE FIGHTING MEASURES**
**5.1 Extinguishing media**

Use extinguishing agent applicable to surrounding fire.

**5.2 Special hazards arising from substance or mixture**

No unusual fire or spill hazard. Low risk by inhalation.

Hazardous combustion products – none

**5.3 Advice for firefighters**

Fire fighters should wear NIOSH approved, positive pressure, self contained breathing apparatus (SCBA) and full protective clothing when appropriate.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment to avoid inhalation of dust

**6.2 Environmental precautions**

Avoid washing into waterways or public water supply.

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

Avoid dust formation. Vacuum, sweep, shovel or use wet clean up techniques and place waste material in closed container.

**6.4 Reference to other sections**

See Section 1 for emergency contact information, Section 8 for appropriate personal protection and Section 13 for additional waste treatment information.

**SECTION 7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Handling: good industrial hygiene practice requires that employee exposure be maintained below tlv. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage: store in a clean, dry area at ambient temperature in original unopened containers. Conditions of high humidity may require storage in a controlled environment.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control Parameters**

Exposure Limits:

OEL(Iron Oxide Fume): 5 mg/m<sup>3</sup> (8 hour reference period), 10mg/m<sup>3</sup>(15 minute reference period)

ACGIH TLV: 5 mg/m<sup>3</sup> (Iron Oxide Fume)

OSHA PEL: 10 ppm (Iron Oxide Fume As Fe)

**8.2 Exposure controls**

Engineering controls: use with adequate ventilation to meet exposure limits listed above.

Respiratory protection: NIOSH approved dust respirator if overexposure potential exists.

Skin protection: leather or rubber gloves.

Eye protection: safety glasses, goggles or face shield recommended.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance: Red powder

Boiling point: >1000° C

Vapor pressure: not applicable

Vapor density: not applicable

pH: 5-8 for aqueous suspension

Odor: none

Odor threshold: not applicable

Flash point: not applicable

Flammable properties: non-flammable

Flammable limits: not applicable

Auto-ignition temperature: not applicable

Specific gravity: 4.45-4.80 @ 20° C

Solubility: Insoluble

Chemical Formula: Fe<sub>2</sub>O<sub>3</sub>

**9.2 Other information**

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**SECTION 10      STABILITY AND REACTIVITY**
**10.1 Reactivity**

Conditions to avoid: none

**10.2 Chemical Stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

None

**10.4 Conditions to avoid**

None

**10.5 Incompatible materials**

Iron oxides are not compatible with strong oxidizing agents

**10.6 Hazardous decomposing products**

Hazardous decomposition products formed under fire conditions. -Iron Oxides

**SECTION 11      TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**

 There are no known dangerous acute effects associated with the use of this material. The acute oral toxicity  $LD_{50}$  oral (rat) for  $Fe_2O_3$  is greater than 10 g/kg (rat).

This product is not considered to be a known or suspected carcinogen by NTP, IARC or OSHA.

**SECTION 12      ECOLOGICAL INFORMATION**
**12.1 Toxicity**

No harmful effects known other than those associated with suspended inert solids in water.

**12.2 Persistence and degradability**

Methods for the determination of biodegradability are not applicable to inorganic substances

**12.3 Bioaccumulative potential**

The product is practically insoluble in water and not biodegradable

**12.4 Mobility in soil**

No information available

**12.5 Results of PBT and vPvB assessment**

According to Annex xiii of Regulation (EC) 1907/2006 A PBT and vPvB assessment shall not be conducted for inorganic substances. This material is an inorganic substance, thus a PBT and vPvB assessment is not required.

**12.6 Other adverse effects**

No none significant effects or critical hazards.

**SECTION 13      DISPOSAL CONSIDERATIONS**
**13.1 Waste treatment methods**

No hazardous waste according to European Directive 2000/5322/EC. Reclaim and recycle material if possible, otherwise dispose according to local regulations. As sold, this product is not classified as a RCRA hazardous waste as defined by 40CFR261. It is the responsibility of the user to determine RCRA classification of any product containing this iron oxide.

**SECTION 14      TRANSPORTATION INFORMATION**

	<b>DOT (USA)</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.2 UN proper shipping name</b>			
-			
<b>14.3 Transport hazard class</b>			
-			
<b>14.4 Packing group</b>			
-			
<b>14.5 Environmental hazards</b>	No	No	No
<b>14.6 Special precautions for user</b>			
Not classified as hazardous and not regulated			

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

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**SECTION 15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

TSCA status: components of this product are listed

CERCLA reportable quantity: none

SARA Title III

Section 311/312 hazardous categories: none

Section 313 toxic chemicals: none

International regulations:

Canadian WHMIS – this material is not a controlled substance

European Community - listed on Ecoin, the European Core Inventory

Canada (DSL): listed

EC (EINECS/ELINCS): listed

Australia (AICS): listed

Japan (ENCS): listed and are not hazardous substances or mixtures according to

China (IECSC): listed

Korea (ECL): listed

New Zealand (HASNO)

Philippine (PICCS): listed

**SECTION 16 OTHER INFORMATION**

NFPA Ratings:

Health 0

Flammability 0

Reactivity 0

HMIS Ratings:

Health 0

Flammability 0

Reactivity 0

Personal Protection E – Glasses, Gloves, Dust Resp.

GHS Classification:

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge with current data available at the date of publication. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones, which exist. Color Techniques Inc. makes no warranty, expressed or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specification.

END OF SDS