

# Iron Oxide Red 110, 110M, 130, 160, 180

According to EC Directive 91/155/EEC

## 1. Identification

**Product:** Pigment Red 101

**Product Name:** Iron Oxide Red 110, 110M, 130, 160, 180

**C.I. No.** 77491, **CAS No.** 1309-37-1

*Manufacturer/Supplier Identification*

**Manufacturer/Supplier:** Formula Chemicals Co. Ltd.

**Emergency telephone number:** +886-922582639; +886-2-26685339

## 2. Composition/Information on Ingredients

**Chemical characterization:** C.I. Pigment Red 101

This product is not considered to be hazardous substance under OSHA'S Hazard Communication Standard (29 CFR 1910/200)

## 3. Hazards Identification

**Health Hazard Data:** No evidence of tumors and absorption or adverse effect. No negative results in rabbit test for primary skin and eye irritation.

**Hazard Designation:** No danger symbols.

**Particular information pertaining to specific risk for humans and environment:** The product is not a substance subject to mandatory marking in according with EEC- 67/548 and 88/379 or amendments

## 4. Emergency and First Aid Procedure

**Eyes and Skin:** Immediately flush eyes with plenty of water for at least 15 minutes. Flush skin with water and consult a physician.

**Inhalation:** Remove to fresh air area and treat symptomatically.

## 5. Firefighting Measures

**Flash point:** N/A

**Flammability classification:** Non-flammable

**Extinguishing media that must not be used for safety reasons:** CO2. Dry powder.

**Special Fire fighting procedure/Suitable extinguishing media:** Use of self-contained breathing apparatus and full protective equipment recommended. Water mist. Foam.

## 6. Accidental Release Measures

**Inhalation:** Should be avoided by wearing dust mask. Inhalation of any nuisance dust may cause respiratory irritation.

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**Skin Contact:** Under normal conditions of good industrial hygiene, not expected to have Irritation.

**Eye Contact:** Should be avoided by wearing approved safety approved safety glasses or goggles. Eye contact with any nuisance particulate may cause eye irritation.

**Ingestion:** Considered to be non-toxic.

**Spillage Procedures:** Pigment spillages should be cleaned up at once. Dry powder spillage is often best treated first by diluting.

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## 7. Handling and Storage

**Advice on safe handling:** No special measures necessary if stored and handled as prescribed.

**Advice on protection against fire and explosion:** Keep away from sources of ignition-refrain from smoking. Avoid formation of dust. Take precautions against accumulation of electrostatic charge.

**Further Information on storage conditions:** Keep container dry.

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## 8. Exposure/ Protection method

**Respiratory Protection:** Dust Respirators recommended when handling pigment dusting.

**Ventilation:** Local exhaust ventilation recommended to control dust exposure, protective gloves are recommended.

**Skin Contact:** protective gloves recommended

**Eye Protection:** Safety glasses or goggles recommended.

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## 9. Physical and Chemical Data

**Form:** Solid

**Appearance:** Powder

**Color:** Red

**Odor:** Odorless

**pH:** 3-7 @50g/l

**Self-ignition temperature:** not applicable

**Density:** 5.2 g/ml

**Solubility in water:** Insoluble (20°C)

**%Volatile:** Negligible

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## 10. Stability and Reactivity

**Stability:** Generally considered stable

**Thermal decomposition:** >1500°C

**Hazardous decomposition products:** No hazardous decomposition products known.

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## 11. Toxicological Data:

This pigment has no acute toxicity by the oral route (LD50 > 2000mg/kg) or by skin contact (LD50 >2000 mg/kg). The pigment is not irritating to the skin or eyes (rabbit). In the

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guinea pig skin sensitization test, it showed no sensitizing effect. No adverse effects were observed in a 28-day toxicity study with doses of up to 1000 mg/kg. No evidence of mutagenicity was detected in mutagenicity tests, *in vitro* or *in vivo*.

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## 12. Ecological Information

The product should not be allowed to enter drains or waterways.

**Mobility:** Non-volatile. Insoluble in water. Floats on water.

**Persistence and degradability:** Not biodegradable.

**Bio-accumulative potential:** No data available.

**Environmental toxic data:** No data available

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## 13. Disposal Considerations

**Product:** In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

**Unclean packing:** Packing that cannot be cleaned should be disposed of as product waste. Do not empty into waters or drains.

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## 14. Transport Data

This preparation is not classified as dangerous according the international transport regulations (ADR/RID, IMDG, ICAO/IATA).

**Land transport ADR/RID:** Not Restricted

**Maritime transport IMDG/GGVSea:** Not Restricted

**Air transport ICAO-TI and IATA-DGR:** Not Restricted

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## 15. Regulatory Information

### Toxic Substance Control Act (TSCA):

All of the ingredients of this material have been reported to the U.S. EPA and are included in the TSCA Chemical inventory.

**Classification According to EEC Directives:** Not a substance subject to mandatory markings in accordance with EEC Directive 67/548/EEC or amendments.

**Danger Symbol and Danger Designation:** No Danger Symbols

**R-Phrases:** --

**S-Phrases:** --

### Additional Information:

**RCRA:** Not regulated as a hazardous waste under RCRA

**EINECS** (European Economic Community): All components of this material are on the EINECS list.

**CONEG:** This product is certified to be in full compliance with CONEG legislation for packaging.

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**16. Other Information**

This data sheet was prepared in accordance with Directive 91/155/EEC.

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