

# M S D S

## Material Safety Data Sheet

Please note: This is the MSDS provided by the supplier of these goods to FIBRECRAFTS.

FIBRECRAFTS does not have the qualifications necessary to gather such specialised data.

Tel: 01483 565800

# Iron Oxide 110M

## 1. Product Identification

**Synonyms:** Iron (III) Oxide; Red Iron Oxide; C.I. 77491; Iron Sesquioxide  
**CAS No.:** 1309-37-1  
**Molecular Weight:** 159.69  
**Chemical Formula:** Fe<sub>2</sub>O<sub>3</sub>  
**Product Codes:** 2024

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	98 - 100%	Yes

## 3. Hazards Identification

### Emergency

### Overview

**WARNING! HARMFUL IF INHALED. AFFECTS RESPIRATORY SYSTEM. MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.**

Health	Rating:	1	-	Slight
Flammability	Rating:	0	-	None
Reactivity	Rating:	1	-	Slight
Contact	Rating:	1	-	Slight
Lab Storage	Protective Color	Equip: Code:	GOGGLES; Orange	LAB COAT (General Storage)

### Potential

### Health

### Effects

#### Inhalation:

May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

#### Ingestion:

Extremely large oral dosages may produce gastrointestinal disturbances.

#### Skin

No adverse

effects

#### Contact:

expected.

**Eye** May cause mechanical **Contact:** irritation.  
**Chronic** Long-term inhalation exposure to iron has resulted in mottling of the lungs, a condition referred to as siderosis. This is considered a benign pneumoconiosis and does not ordinarily cause significant physiological impairment. Long term eye exposures may stain the eyes and leave a "rust ring".  
**Aggravation of Pre-existing Conditions:** Persons with impaired respiratory function may be more susceptible to the effects of the substance.

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## 4. First Aid Measures

**Inhalation:**

Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:**

If large amounts were swallowed, give water to drink and get medical advice.

**Skin**

Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

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## 5. Fire Fighting Measures

**Fire:**

Not expected to be a fire hazard.

**Explosion:**

No information found.

**Fire**

Use any means suitable for extinguishing surrounding fire.

**Special**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

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## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

<b>Airborne</b>			<b>Exposure</b>		<b>Limits:</b>
-	OSHA	Permissible	Exposure	Limit	(PEL)
Iron		oxide	fume:	10	mg/m <sup>3</sup>
-	ACGIH	Threshold	Limit	Value	(TLV)
Iron oxide dust and fume (Fe <sub>2</sub> O <sub>3</sub> ) as Fe: 5 mg/m <sup>3</sup> (TWA), inhalable particulate; for particulate matter containing no asbestos and < 1% crystalline silica.					
A4	-	Not	classifiable	as	a human carcinogen.
<b>Ventilation</b>					<b>System:</b>
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition, for details.					
<b>Personal</b>			<b>Respirators</b>	<b>(NIOSH</b>	<b>Approved):</b>
If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. <b>WARNING:</b> Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.					
<b>Skin</b>					<b>Protection:</b>
Wear protective gloves and clean body-covering clothing.					
<b>Eye</b>					<b>Protection:</b>
Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.					

## 9. Physical and Chemical Properties

<b>Appearance:</b>					
Reddish-brown					powder.
<b>Odor:</b>					
No			information		found.
<b>Solubility:</b>					
Negligible			(<		0.1%)
<b>Specific</b>					<b>Gravity:</b>
5.24					
<b>pH:</b>					
No			information		found.
<b>%</b>	<b>Volatiles</b>	<b>by</b>	<b>volume</b>	<b>@</b>	<b>21C (70F):</b>
0					
<b>Boiling</b>					<b>Point:</b>
No			information		found.
<b>Melting</b>					<b>Point:</b>
1565C					(2849F)
<b>Vapor</b>			<b>Density</b>		<b>(Air=1):</b>
Not					applicable.
<b>Vapor</b>		<b>Pressure</b>		<b>(mm</b>	<b>Hg):</b>
Not					applicable.

**Evaporation**  
No information found.

**Rate**

**(BuAc=1):**

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## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous**

No

**Decomposition**

information

**Products:**

found.

**Hazardous**

Will

not

**Polymerization:**

occur.

**Incompatibilities:**

Carbon monoxide, hydrazine, calcium hypochloride, performic acid, bromine pentafluoride.

**Conditions**

to

**Avoid:**

Incompatibles.

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## 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient Known Anticipated IARC Category

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Iron Oxide, Fe<sub>2</sub>O<sub>3</sub> (1309-37-1) No No 3

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## 12. Ecological Information

**Environmental**

No

information

**Fate:**

found.

**Environmental**

No information found.

**Toxicity:**

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## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 14. Transport Information

Not regulated.

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## 15. Regulatory Information

.....\Chemical Inventory Status - Part 1\.....  
 Ingredient TSCA EC Japan Australia  
 Iron Oxide, Fe2O3 (1309-37-1) Yes Yes Yes Yes

.....\Chemical Inventory Status - Part 2\.....  
 ..Canada..  
 Ingredient Korea DSL NDSL Phil.  
 Iron Oxide, Fe2O3 (1309-37-1) Yes Yes No Yes

.....\Federal, State & International Regulations - Part 1\.....  
 -SARA 302- .....SARA 313.....  
 Ingredient RQ TPQ List Chemical Catg.  
 Iron Oxide, Fe2O3 (1309-37-1) No No No No

.....\Federal, State & International Regulations - Part 2\.....  
 -RCRA- -TSCA-  
 Ingredient CERCLA 261.33 8(d)  
 Iron Oxide, Fe2O3 (1309-37-1) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No  
 Reactivity: No (Pure / Solid)

**Australian Poison WHMIS:** **Hazchem Schedule:** **Code:** None allocated.  
 None allocated.

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Label Ratings:** Health: 1 Flammability: 0 Reactivity: 0  
**Hazard Warning:**  
 WARNING! HARMFUL IF INHALED. AFFECTS RESPIRATORY SYSTEM.  
 MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

**Label Precautions:**  
 Avoid contact with eyes, skin and clothing.  
 Wash thoroughly after handling.  
 Avoid breathing dust.  
 Keep container closed.  
 Use only with adequate ventilation.

**Label First Aid:**  
 If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.  
 In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Product Use:**

Laboratory

**Revision**

No

**Disclaimer:**

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Goldlink Industries Co.,LTD provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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Reagent.

**Information:**

changes.