



## SAFETY DATA SHEET

### Red Iron Oxide

#### 1. Identification

##### Product identifier

**Product name** Red Iron Oxide

**Product number** 116

##### Recommended use of the chemical and restrictions on use

**Application** Industrial color

##### Details of the supplier of the safety data sheet

**Supplier** Huntsman Pigments Americas LLC  
P.O. Box 4980  
The Woodlands, TX 77387  
+1 301 210 3400 / +1 323 269 7311  
MSDS@huntsman.com

##### Emergency telephone number

**Emergency telephone** CHEMTREC: (800) 424-9300 (Contract number: 191118)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Carc. 1A - H350

**Environmental hazards** Not Classified

##### Label elements

##### Pictogram



**Signal word** Danger

**Hazard statements** H350 May cause cancer.

**Precautionary statements** P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 If exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with national regulations.

**Contains** CRYSTALLINE SILICA

#### 3. Composition/information on ingredients

##### Mixtures

## Red Iron Oxide

<b>CALCIUM CARBONATE</b>	<b>30-60%</b>
CAS number: 1317-65-3	REACH registration number: Proprietary
<b>Classification</b>	
Not Classified	
<b>C.I. PIGMENT RED 101</b>	<b>30-60%</b>
CAS number: 1309-37-1	REACH registration number: Proprietary
<b>Classification</b>	
Not Classified	
<b>C.I. PIGMENT BLACK 11</b>	<b>1-5%</b>
CAS number: 1317-61-9	REACH registration number: Proprietary
<b>Classification</b>	
Not Classified	
<b>CRYSTALLINE SILICA</b>	<b>&lt;1%</b>
CAS number: 14808-60-7	REACH registration number: Proprietary
<b>Classification</b>	
Carc. 1A - H350 STOT RE 2 - H373	

The Full Text for all Hazard Statements are Displayed in Section 16.

#### 4. First-aid measures

##### Description of first aid measures

<b>Inhalation</b>	If exposed to excessive levels of dust or fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.
<b>Ingestion</b>	Rinse mouth thoroughly with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed by medical personnel. Get medical attention if symptoms occur.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if any discomfort continues.

#### 5. Fire-fighting measures

##### Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, foam, dry powder or carbon dioxide.

##### Special hazards arising from the substance or mixture

**Flammability Class** No Uniform Fire Code noted.

##### Advice for firefighters

**Protective actions during firefighting** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Red Iron Oxide

**Special protective equipment for firefighters** Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

### 6. Accidental release measures

#### Methods and material for containment and cleaning up

**Methods for cleaning up** If dust is generated, use appropriate respiratory protection. Vacuum or sweep up material and place in a disposal container. Avoid generation and spreading of dust. Large Spillages: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Avoid runoff into storm sewers and ditches which lead to waterways.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with skin and eyes. Wash contaminated skin thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store dry at ambient temperature away from food and beverages, excessive heat or flame sources (furnace, kilns, boilers etc.). Store away from substances subject to catalytic decomposition by dust, e.g. peroxides Store at temperatures not exceeding 55°C/130°F.

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

##### **C.I. PIGMENT RED 101**

Long-term exposure limit (8-hour TWA): OSHA 10 mg/m<sup>3</sup> fume  
 Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust  
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> respirable fraction  
 Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup> respirable fraction  
 A4

##### **CRYSTALLINE SILICA**

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m<sup>3</sup> respirable fraction  
 A2

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

A2 = Suspected Human Carcinogen.

**Ingredient comments** Although no exposure limit has been established by OSHA for this product, the limit for nuisance particulates should be followed: OSHA 8-hr TWA 10mg/m<sup>3</sup> Total Dust 5 mg/m<sup>3</sup> respirable dust. ACGIH TLV-TWA 10mg/m<sup>3</sup> Total dust or 5mg/m<sup>3</sup> respirable dust.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Appearance** Dusty powder.  
**Color** Red.  
**Odor** Odorless.

## Red Iron Oxide

<b>pH</b>	pH (diluted solution): 4-8 @ 10%
<b>Melting point</b>	> 1000 deg C / 1832 deg F
<b>Solubility(ies)</b>	Insoluble in water.
<b>Volatile organic compound</b>	None.

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	From ca. 60°C, transformation of black iron oxide to Fe <sub>2</sub> O <sub>3</sub> will occur as an exothermic reaction. Yellow iron oxide will lose water of hydration at 180°C and convert to Fe <sub>2</sub> O <sub>3</sub> .
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Keep at temperature not exceeding 55°C/130°F.
<b>Materials to avoid</b>	Substances subject to catalytic decomposition caused by dust such as peroxides. Further avoid contact with aluminum dust, calcium hypochlorite, hydrazine, ethylene oxide, caesium carbide.
<b>Hazardous decomposition products</b>	No known hazardous decomposition products.

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	No information available.
<b>Inhalation</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin Contact</b>	Substance may cause slight skin irritation.
<b>Eye contact</b>	May cause slight irritation.

### 12. Ecological Information

<b>Ecotoxicity</b>	The product is not expected to be hazardous to the environment.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The product is not readily biodegradable.
<b><u>Bioaccumulative potential</u></b>	
<b>Bio-Accumulative Potential</b>	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	The product is insoluble in water.
<b><u>Results of PBT and vPvB assessment</u></b>	
<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.

## Red Iron Oxide

### Other adverse effects

**Other adverse effects**                      None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information**                      Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

### 14. Transport information

**General**    The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

### 15. Regulatory information

#### US Federal Regulations

##### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

##### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

##### **SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

##### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

#### US State Regulations

**State Regulations Comments**      California Prop 65 Warning: This product contains chemicals, as trace impurities and not intentionally added, known to the state of California to cause cancer (C) and birth defects or other reproductive (R) harm.

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

###### **CRYSTALLINE SILICA**

Known to the State of California to cause cancer.

<1%

##### **California Air Toxics "Hot Spots" (A-I)**

None of the ingredients are listed or exempt.

##### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

##### **Massachusetts "Right To Know" List**

###### **C.I. PIGMENT BLACK 11**

Not listed.

###### **C.I. PIGMENT RED 101**

Present

###### **CRYSTALLINE SILICA**

Present

## Red Iron Oxide

### CALCIUM CARBONATE

Yes.

#### Rhode Island "Right To Know" List

### C.I. PIGMENT BLACK 11

Not listed.

### C.I. PIGMENT RED 101

Present

### CRYSTALLINE SILICA

Present

### CALCIUM CARBONATE

Yes.

#### Minnesota "Right To Know" List

### C.I. PIGMENT BLACK 11

Not listed.

### C.I. PIGMENT RED 101

Present

### CRYSTALLINE SILICA

Present

### CALCIUM CARBONATE

Yes.

#### New Jersey "Right To Know" List

### C.I. PIGMENT BLACK 11

Not listed.

### C.I. PIGMENT RED 101

Present

### CRYSTALLINE SILICA

Present

### CALCIUM CARBONATE

Yes.

#### Pennsylvania "Right To Know" List

### C.I. PIGMENT BLACK 11

Not listed.

### C.I. PIGMENT RED 101

Present

### CRYSTALLINE SILICA

Present

### CALCIUM CARBONATE

Yes.

#### Inventories

##### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

##### Canada - DSL/NDSL

## Red Iron Oxide

### C.I. PIGMENT BLACK 11

DSL

### C.I. PIGMENT RED 101

DSL

### CRYSTALLINE SILICA

DSL

### CALCIUM CARBONATE

Non Domestic Substance List

### US - TSCA

All the ingredients are listed or exempt.

### US - TSCA 12(b) Export Notification

No.

### Australia - AICS

All the ingredients are listed or exempt.

### Japan - MITI

#### C.I. PIGMENT BLACK 11

Yes.

#### C.I. PIGMENT RED 101

Yes.

#### CRYSTALLINE SILICA

No.

#### CALCIUM CARBONATE

No.

### Korea - KECI

All the ingredients are listed or exempt.

### China - IECSC

All the ingredients are listed or exempt.

### Philippines – PICCS

All the ingredients are listed or exempt.

### New Zealand - NZIOC

All the ingredients are listed or exempt.

## 16. Other information

<b>Revision date</b>	4/13/2015
<b>Supersedes date</b>	10/1/2014
<b>SDS No.</b>	21061
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H251 Self-heating: may catch fire. H350 May cause cancer. H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

## Red Iron Oxide

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.