



SAFETY DATA SHEET

Red Iron Oxide

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200.

1. Identification

Product identifier

Product name Red Iron Oxide

Product number 100, 117, 160, 1114, 1115, 1117, 1119, 1134, 1396, 3105, 3107, 10196, 10289, 10299, 10311, 10327, 10362, 10375, 10384, C1190, C2977

Recommended use of the chemical and restrictions on use

Application Industrial color

Details of the supplier of the safety data sheet

Supplier Oxerra Americas LLC
10001 Woodloch Forest Dr. Suite 600
The Woodlands
TX. 77380
(001) 844 831 6720
(001) 281 465 6731
sds.management@oxerra.com

Emergency telephone number

Emergency telephone Domestic & Canada 1-800-633-8253 (PERS) Oxerra Customer # 12060
International 1-801-629-0667 (PERS)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

3. Composition/information on ingredients

Mixtures

C.I. PIGMENT RED 101	> 75%
CAS number: 1309-37-1	

Classification
Not Classified

Red Iron Oxide

CALCIUM CARBONATE	< 25%
CAS number: 1317-65-3	
Classification	
Not Classified	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation	If exposed to excessive levels of dust or fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.
Ingestion	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.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists.
Eye contact	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.

Additional information:

Special hazards arising from the substance or mixture

Flammability Class No Uniform Fire Code noted.

Advice for firefighters

Protective actions during firefighting	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Methods and material for containment and cleaning up

Methods for cleaning up	If dust is generated, use appropriate respiratory protection. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. 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 the spillage or runoff entering drains, sewers or watercourses.
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7. Handling and storage

Precautions for safe handling

Usage precautions Avoid generation and spreading of dust. Do not breathe dust. Avoid contact with skin and eyes. Wash contaminated skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Red Iron Oxide

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 15 mg/m³ total dust
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
 Long-term exposure limit (8-hour TWA): OSHA 10 mg/m³ fume
 Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ respirable fraction
 A4

CALCIUM CARBONATE

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
 Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
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 Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a 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/m³ Total Dust 5 mg/m³ respirable dust. ACGIH TLV-TWA 10mg/m³ Total dust or 5mg/m³ respirable dust.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Dusty powder.
Color	Red. Red-brown.
Odor	Odorless.
Odor threshold	Not available.
pH	pH (diluted solution): 4-8 @ 10%
Melting point	> 1000 deg C / 1832 deg F
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

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Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Volatile organic compound	None.

10. Stability and reactivity

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

11. Toxicological information

Information on toxicological effects

Toxicological effects	No information available.
Inhalation	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Skin Contact	May be slightly irritating to skin.
Eye contact	May be slightly irritating to eyes.

12. Ecological information

Ecotoxicity	The product is not expected to be hazardous to the environment.
<u>Persistence and degradability</u>	
Persistence and degradability	The product is not readily biodegradable.
<u>Bioaccumulative potential</u>	

Red Iron Oxide

Bio-Accumulative Potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Partition coefficient	Not available.
<u>Mobility in soil</u>	
Mobility	The product is insoluble in water.
<u>Other adverse effects</u>	
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.
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14. Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
<u>UN Number</u>	
UN No. (International)	Not applicable.
UN No. (DOT)	Not applicable.
<u>UN proper shipping name</u>	
Proper shipping name (International)	Not applicable.
Proper shipping name (DOT)	Not applicable.
<u>Transport hazard class(es)</u>	
Transport Labels (International)	No transport warning sign required.
DOT transport labels	
No transport warning sign required.	
<u>Packing group</u>	
Packing group (International)	Not applicable.
DOT packing group	Not applicable.
<u>Environmental hazards</u>	
Environmentally Hazardous Substance	
No.	
<u>Special precautions for user</u>	
Not applicable.	
DOT reportable quantity	Not applicable.
DOT TIH Zone	Not applicable.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations

State Regulations Comments WARNING! This product can expose you to chemicals, as trace impurities and not intentionally added, known to the state of California to cause cancer (C) and birth defects (M) or other reproductive (R) harm. For more information, go to www.P65Warnings.ca.gov.

Arsenic (As), Cadmium (Cd), Chromium VI (Cr6+), Cobalt (Co), Lead (Pb), Mercury (Hg) and Nickel (Ni)

WARNING: This product can expose you to chemicals including quartz (SiO₂), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

C.I. PIGMENT BLACK 11

DSL

C.I. PIGMENT RED 101

DSL

CALCIUM CARBONATE

NDSL

US - TSCA

All ingredients are listed on the TSCA ACTIVE List

US - TSCA 12(b) Export Notification

No.

Japan - ENCS

All the ingredients are listed or exempt.

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Taiwan - TCSI

All the ingredients are listed or exempt.

16. Other information

LABEL CODE	N/A
Revision date	5/28/2023
Revision	5
Supersedes date	4/2/2023
SDS No.	21087
SDS status	Approved.

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