



HUNTSMAN

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SAFETY DATA SHEET

Brown 521

Laguna Clay Company

MIROXBRN

Distributed by:
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1. Identification

Product identifier

Product name Natural Red Iron Oxide

Product number 521,NO1085,NO1283

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 No: 191118)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Eye Irrit. 2A - H319 Carc. 1A - H350 STOT RE 2 - H373

Environmental hazards Not Classified

Label elements

Pictogram



Signal word Danger

Hazard statements
H319 Causes serious eye irritation.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Natural Red Iron Oxide

Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe vapor/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 If exposed or concerned: Get medical advice/attention.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
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Contains CRYSTALLINE SILICA

3. Composition/information on ingredients

Mixtures

C.I. PIGMENT RED 101	> 80%
CAS number: 1309-37-1	REACH registration number: Proprietary
Classification Not Classified	
CRYSTALLINE SILICA	< 9%
CAS number: 14808-60-7	
Classification Carc. 1A - H350 STOT RE 2 - H373	
ALUMINUM OXIDE	1-5%
CAS number: 1344-28-1	
Classification Not Classified	
CALCIUM OXIDE	< 1%
CAS number: 1305-78-8	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
MAGNESIUM OXIDE	1-5%
CAS number: 1309-48-4	
Classification Not Classified	

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

Natural Red Iron Oxide

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.

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.

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

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

C.I. PIGMENT RED 101

Natural Red Iron Oxide

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

CRYSTALLINE SILICA

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m³ respirable fraction
 A2

ALUMINUM OXIDE

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

CALCIUM OXIDE

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³

MAGNESIUM OXIDE

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

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/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-brown.
Odor	Odorless.
Odor threshold	Not available.
pH	pH (diluted solution): 4-8 @10% suspension
Melting point	> 1000°C/1832°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.
Vapour pressure	Not available.

Natural Red Iron Oxide

Vapour density	Not available.
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

Stability	No particular stability concerns.
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.

11. Toxicological information

Information on toxicological effects

Toxicological effects	No specific toxicity tests have been carried out on this product.
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	Substance may cause slight skin irritation.
Eye contact	May cause slight irritation.

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>	
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.

Natural Red Iron Oxide

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

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID, 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

ALUMINUM OXIDE

1.0 %

MAGNESIUM OXIDE

1.0 %

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

CRYSTALLINE SILICA

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

C.I. PIGMENT RED 101

Present.

ALUMINUM OXIDE

Present.

CALCIUM OXIDE

Present.

CRYSTALLINE SILICA

Present.

MAGNESIUM OXIDE

Present.

Rhode Island "Right To Know" List

C.I. PIGMENT RED 101

Present.

Natural Red Iron Oxide

ALUMINUM OXIDE

Present.

CALCIUM OXIDE

Present.

CRYSTALLINE SILICA

Present.

MAGNESIUM OXIDE

Present.

Minnesota "Right To Know" List

C.I. PIGMENT RED 101

Present.

ALUMINUM OXIDE

Present.

CALCIUM OXIDE

Present.

CRYSTALLINE SILICA

Present.

MAGNESIUM OXIDE

Present.

New Jersey "Right To Know" List

C.I. PIGMENT RED 101

Present.

ALUMINUM OXIDE

Present.

CALCIUM OXIDE

Present.

CRYSTALLINE SILICA

Present.

MAGNESIUM OXIDE

Present.

Pennsylvania "Right To Know" List

C.I. PIGMENT RED 101

Present.

ALUMINUM OXIDE

Present.

CALCIUM OXIDE

Present.

CRYSTALLINE SILICA

Present.

MAGNESIUM OXIDE

Present.

Inventories

EU - EINECS/ELINCS

Natural Red Iron Oxide

EINECS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

DSL

All the ingredients are listed or exempt.

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

The following ingredients are not listed or exempt:

CRYSTALLINE SILICA

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.

16. Other information

Revision date	6/3/2015
Revision	2
Supersedes date	3/24/2015
SDS No.	21020
SDS status	Approved.
Hazard statements in full	H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H350 May cause cancer. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

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.